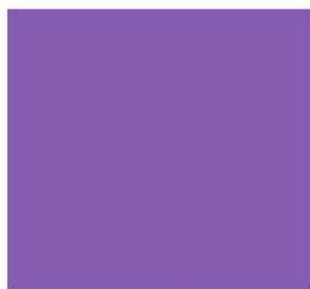


# Up for the Challenge

# Lifetime Fitness, Healthy Decisions



**Health, Fitness, and Nutrition Curriculum**

4-H/Army Youth Development Project

Updated 2017

## **Up for the Challenge:**

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Lifetime Fitness, Healthy Decisions

The *Up for the Challenge: Lifetime Fitness, Healthy Decisions* curriculum is a support piece for the Army Child, Youth and School Services Program. The material is based upon work supported by the 4-H / Army Youth Development Project, a partnership of the U.S. Army Child, Youth and School Services, and 4-H National Headquarters, National Institute of Food and Agriculture, U.S. Department of Agriculture, and the University of Maryland Extension, under special project number 2004-48606-03085.

This curriculum comes with a resource list in Appendix B containing suggestions for educational teaching materials. This does not imply Army or 4-H endorsement of these products, or the vendors thereof. Army Child Youth Services (CYS) staff and other users should use their discretion in substituting or replacing these items.

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## **Up for the Challenge:**

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Lifetime Fitness, Healthy Decisions

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# Introduction

## A Growing Nation

The American population often makes unhealthy decisions concerning physical activity, health, and nutrition. These decisions occur in all communities and in people of all ages. The result of these choices is that more than half of the total population is overweight or obese.

According to the Surgeon General, Health and Human Services, being overweight is a risk factor for health conditions seen more frequently in children such as increased blood pressure (hypertension), type 2 diabetes, increased total cholesterol, insulin resistance, sleep apnea, bowed legs, joint problems, back pain, early puberty, depression, anxiety and weight cycling. These problems often stay with those who are overweight throughout their lives.

The 2015 Dietary Guidelines for Americans report that nearly one third of American youth are overweight or obese. This percentage is even higher among minority youth populations.

Children who are properly nourished and physically fit are more likely to be active in their school classrooms and achieve higher standardized test scores. Unfortunately, we find that youth are increasingly sedentary. They often engage in activities that are technology-driven and require little physical exertion.



Physical education may be limited or nonexistent in many schools. Many children eat too many processed foods containing too much sugar and fat. Unfortunately, today's popular snacks have more calories, fat and sugar than ever before.

## Strengthening Fitness and Health

*Up for the Challenge*: Lifetime Fitness, Healthy Decisions is a resource for Army Child, Youth and School Services (CYSS) to use to strengthen the baseline programming for Sports, Fitness and Health activities. This document is the Instructor Guide for Sports Directors and other youth development professionals. It can be used as part of the CYSS Sports and Fitness Program Initiative: Get Fit, Be Strong, which is a comprehensive health, fitness and wellness campaign to increase children and youth's physical activity and teach healthy lifestyle practices.

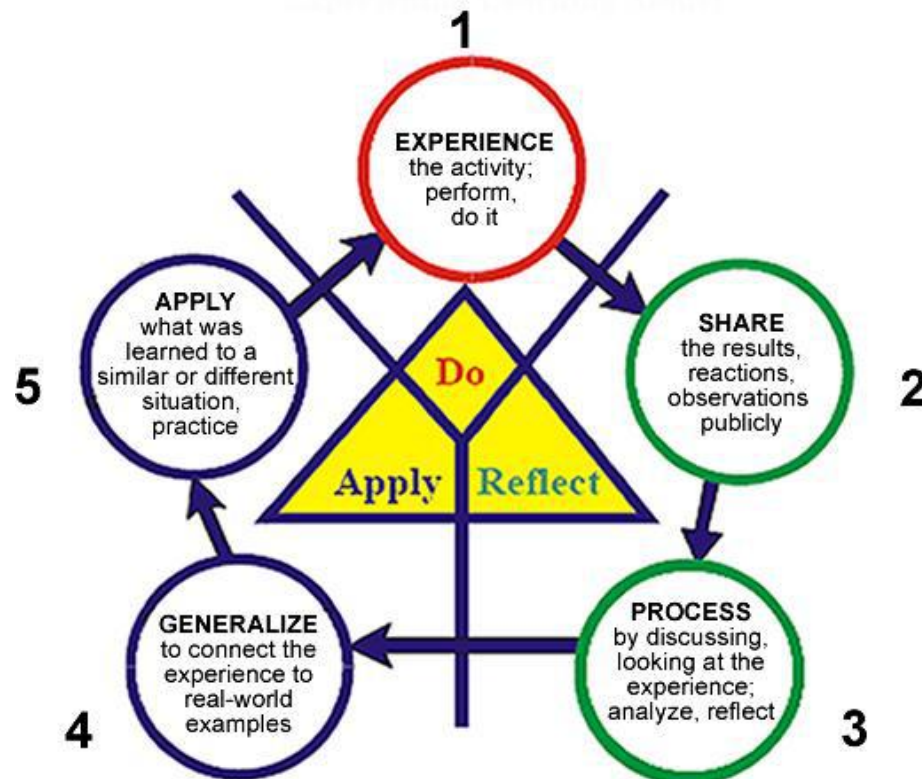
*Up for the Challenge* provides learning that is specific to a child's individual needs and goals within a non-competitive setting. The mission of 4-H is to develop life skills in youth. Through participation in activities, lessons, discussions and application of ideas presented in the *Up for the Challenge* curriculum, youth will strengthen their technical, communication, social, and emotional skills.

The core method used by 4-H to educate youth is "learning by doing." This method is called the National 4-H Experiential Learning Model, which is based on a 5-step learning process:

1. Experience the project or activity with minimal guidance from an adult
2. Share reactions and observations with others about the experience
3. Process or analyze the experience to determine what was most important
4. Generalize the experience to connect it to real world experiences
5. Apply the knowledge and skills learned to other similar life situations.

In experiential learning, youth are presented with a question, problem, situation, or activity. Instead of being told the answers, they must make sense of it for themselves. The graphic below depicts the process.

## Experiential Learning Model



This curriculum is designed to answer three key questions:

- How can we help children and youth shift to healthier habits that can last a lifetime?
- How can we reduce sedentary time by building physical activity into a child's or youth's day?
- How can we help each child and youth to be healthier at their current size?

*Up for the Challenge* takes a wellness approach -- encouraging youth to be active and make healthy decisions throughout their lifetime. Wellness is not about perfection or achieving certain numbers. It is not merely the absence of disease or infirmity. Wellness is about overall health and well-being, which includes physical, mental and social well-being.



Wellness is like a tripod. It works best if all legs are equally balanced. Wellness is achieved when the mind and body work together to make decisions that benefit the whole. The three legs are physical activity, good nutrition, and healthy lifestyle choices. The *Up for the Challenge* curriculum provides Sports Directors and youth educators with information to help children make healthy choices in all three areas.

## Up for the Challenge Objectives

The objective of this curriculum is to provide youth development workers with tools to create an educational experience that allows them to:

- Assess youth's personal goals
- Plan physical activities for youth, especially those not athletically inclined
- Incorporate other related curriculum such as the Boys and Girls Club of America's Triple Play<sup>1</sup> into programming
- Provide a variety of healthy choices: lifestyle, eating, and physical activity
- Provide developmentally appropriate nutrition concepts
- Model positive, simple, consistent nutrition and physical activity messages
- Focus on knowledge and skills to make healthy personal decisions
- Teach cooperation, fair play, responsible participation and the joy of being active

The *Up for the Challenge* curriculum includes fitness, nutrition, and health lessons for each of three age groups: school age, middle school, and teen. The four chapters in this curriculum are:

- Chapter 1 – Back to Basics
- Chapter 2 – Fueling the Body
- Chapter 3 – Consumer Challenge
- Chapter 4 – Activity for Life

Each lesson provides expected youth outcomes, instructor essential information, preparation instructions, supplies, lesson time, handouts, and opportunities for reflection. Also included are activities for youth to do independently. These activities encourage support from a parent, caring adult, or sibling. Each lesson has at least one Technology Challenge to apply the lesson to another situation. Instructors should consider the lessons in this Instructor Guide to be just the beginning in creating a wellness program that is fun and interesting for youth and staff.

### PHYSICAL ACTIVITY

Physical activity is important for youth. The United States Department of Health and Human Services' Physical Activity Guidelines for Americans recommend that children and teenagers get 60 minutes of moderate or vigorous physical activity everyday to help control weight, build muscular strength, achieve aerobic fitness (heart and lung capacity), and increase bone mass through weight-bearing activities. That may sound ambitious, but this hour of activity does not have to be completed all at one time. For example, a 10-year-old child might achieve this goal in one day by walking the dog for 15 minutes, playing soccer for 30 minutes, and running and jumping on the playground for 15 minutes.

This curriculum includes three types of physical activity:

- **Aerobic or cardiovascular** - Aerobic activity increases the heart and breathing rates and burns calories. Examples of aerobic activities include walking at a brisk pace, competitive soccer or basketball, bicycling or swimming.

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<sup>1</sup> Triple Play is an initiative of the Boys and Girls Clubs of America.

- **Strength training and weight-bearing** – This type of activity helps to build strong bones and muscles by working the musculoskeletal system against gravity or weights. Examples of weight-bearing or strength-building exercises for children include rope climbing, pull-ups, push-ups, walking, running, and typical playground activity. Weight training is not recommended for youth before puberty.
- **Flexibility and balance** - These activities reduce the risk of injury and **should be** incorporated into every moderate or vigorous activity, particularly as a cool-down. Examples of flexibility exercises include stretching, yoga, and martial arts.



Ideally, children should have a combination of these types of activities throughout the week. After-school programs can provide an informal, safe environment to support daily physical activity.



## Notes to Instructors

There are many web site references in *Up for the Challenge* in the Technology Challenge sections and in other lesson components. Although all the web site addresses were verified at the time of publication, web sites frequently move, change, or disappear.

Instructors should check all web sites to be used in a lesson before directing youth to go there. If a web site is no longer available, the instructor may find a substitute and note it in the guide.

### LESSON COMPONENTS

Each lesson includes one or more of the following components:

- Preparation (set up, supplies and educational materials)
- Outcomes
- Instructor Essential Information
- Discussion
- Activities
- Now We're Cookin'
- Reflect
- Apply
- Technology Challenge

Lesson components may be broken out by age groups, or one or more age groups may be combined. Each lesson has one or more outcomes describing the objectives for that lesson.

Lesson Outcomes are marked with age group icons as follows:



All Ages



School Age



Middle School



Middle School • Teen



Teen

Most of the handouts used in the lessons can be found in Appendix A and will be identified with an [A](#) symbol. Ordering information for other handouts and suggested teaching materials is available in a Resources List in Appendix B. These resources will be indicated by an [RL](#) symbol.

In the *Preparation* column, the instructor will find a description of how to get ready for the lesson. It includes:

- Preparation time
- Supplies
- Handouts & Books (also recipes, charts, and brochures)
- Set Up

Instructors should review each lesson in its entirety before teaching to be sure to include all the lesson components for a specific age group. For some lessons, the class will benefit by having older children and youth involved in setting up and leading some of the activities.

The duration and intensity of exercises in fitness lessons may need to be adjusted to

accommodate different fitness levels of youth. The instructor should always provide water breaks during these activities. The breaks should be more frequent in warm weather.

## **Evaluation**

This curriculum uses an adapted survey from the National 4-H Common Measures instruments. Common Measures instruments are designed to assess the impacts of 4-H programs in a variety of areas, including healthy living. A Reference Table and Survey tool for use with the Up for the Challenge curriculum are located in Appendix C, page 259.

# Chapter 1 Back to Basics

## Introduction

Chapter 1 introduces best practices in the areas of eating and exercising. It makes extensive use of *MyPlate* as the basis for choosing the types and amounts of foods eaten. Youth learn how to create a healthy diet by learning the daily requirements for each food group. Back to Basics is designed to acquaint youth with the fundamentals of exercise including aerobic, bone and muscle strengthening, and flexibility activities. A variety of activities and games are used to illustrate these types of physical exercise.

Youth learn proper handwashing and the importance of washing frequently.

Instructors will find both nutrition and physical activities marked specifically for each age group. Frequently the Middle School and Teen groups are combined. The lesson includes discussions and activities to do independently, which helps to reinforce the learning.

## Lesson Summary

- |   |           |
|---|-----------|
| 1. Get in the Movement Groove - Introduction to Physical Activity | Fitness   |
| 2. MyPlate - The Beginning Challenge - Introduction to Nutrition  | Nutrition |
| 3. The Importance of Good Hygiene                                 | Nutrition |
| 4. In Beat - The Heartbeat  | Fitness   |
| 5. Think Your Drink   | Nutrition |
| 6. Muscle Mania: Move it or Lose It                               | Fitness   |
| 7. Picking Protein  | Nutrition |
| 8. Flexibility is Fabulous  | Fitness   |
| 9. Eating Rainbows  | Nutrition |
| 10. Make Half Your Grains Whole                                   | Nutrition |

## Lesson 1: Get in the Movement Groove

### Introduction to Physical Activity



#### Outcomes (School Age)

The purpose of this lesson is to have the children:

- Explore the benefits of exercise
- Identify why participation in exercise/physical activity is important
- Share activities they can do with friends and families
- Understand the three types of physical activity
- Participate in a warm-up and cool-down activity
- Participate in a cooperative physical activity


#### PREPARATION

🕒 5 minutes

#### SET UP

- ❑ Before lesson begins, set up easel or use walls to hang self-stick easel paper
- ❑ Have youth sit in semi-circle around easel or wall

#### SUPPLIES

- ❑ Easel and markers
- ❑ Activity Pyramid 

#### Discussion

**DO** (School Age) 🕒 10 minutes

? Ask: Why is physical activity good for you? Use an easel to record answers. Have children share ideas. Possible answers: stronger bodies, better at sports, staying healthy, disease prevention, feel better.

? Ask: What physical activities do you do on a regular basis? Possible answers: dancing, gymnastics, soccer, T-ball, walking the dog, swimming, playing outside.



Talk about the importance of warming up muscles before beginning exercise and cooling down afterward. It reduces risk for injury during strenuous activities, and increases flexibility and balance.

Explain that there are three kinds of exercise and describe how they benefit your body. Give examples of each. Use the Activity Pyramid to illustrate these examples.

- Exercise that increases heart and breathing rates (aerobic). Aerobic activity makes your heart, lungs, blood vessels and muscles stronger. Examples: running, fast walking, jumping rope, or swimming.
- Exercise that builds strong bones and muscles (strength training). Examples: push-ups, chin-ups, sit-ups, rope climbing, running or jumping.
- Exercise that stretches muscles, tendons and ligaments (flexibility) to improve balance and reduce injury. Examples: martial arts, yoga, dance, and stretching.

## Lesson 1: Get in the Movement Groove

### SUPPLIES

- A variety of upbeat and relaxing music
- Jump ropes, balls, hula-hoops, etc.



### Activity 1 - Warm-Up, Aerobics, Cool-Down

**DO** (School Age) ⌚ 25-30 minutes

This is a three-part activity. The children will participate in a warm-up activity, an aerobic activity, and a cool-down activity.

**Instructor Note:** The duration and intensity of the exercises in this lesson may need to be adapted to accommodate different fitness levels of the children. The instructor should always provide water breaks during these activities. The breaks should be more frequent in warm weather.

**WARM-UP** ⌚ 5 minutes

Have the children stand in a large circle with plenty of room around each child to allow for movement. Tell children that they will be playing a game called Move to the Music. Explain that when the music starts you will give a command to start walking in a circle or marching in place to warm up their bodies before stretching. Play music for walking or marching for at least 3-5 minutes. Tell them that when the music stops they need to stop and listen to instructions.

Tell the children to find a partner. Explain that they are to match the body parts you call out with their partner. For example, if you call out "sole of foot to sole of foot," they might face each other with one foot up touching their partner's foot. Or call out "elbow to knee" directing one child to bend down and touch the other elbow to a partner's knee. Select body parts that require the children to stretch.

After the children have completed the matching portion of the exercise, start the music again and have them begin walking in a circle or in place. Continue stopping and starting the music and calling out body matching commands until the children have been active for at least 10 minutes.

You can increase the intensity of the warm-up activity by having the children skip, walk quickly, jump or jog between commands.

**AEROBICS** ⌚ 15-20 minutes

In this part, the children will play Make A Game<sup>2</sup>. Divide them into groups of four. Set out several pieces of play equipment such as jump ropes, hula-hoops, balls, scarves, etc.

<sup>2</sup> Adapted from *Jump Into Foods and Fitness*, Michigan State University Board of Trustees, 2007

## Lesson 1: Get in the Movement Groove

Have each group pick two to three pieces of equipment. Give each group 3-5 minutes to create a game or activity **involving the whole group and using each piece of equipment.**

Tell the children that **each member of the team must be an active participant** in the game or activity that their group invents.

Have each group demonstrate their activity to the larger group. Remember, the purpose of this activity is to get every child moving and participating.

**COOL-DOWN** 🕒 5 minutes

In this part of the activity, the children will stretch and relax to music. Play relaxing music.

Have the children gather in a large circle. Explain that they will be cooling down their muscles. Tell them that after strenuous activities, they need to give their bodies a chance to recover. Have them first stretch one arm to the ceiling, pushing their arm higher and higher. Repeat with the other arm.

Have the children stretch both arms, stretching higher and higher, and holding the stretch for at least 15 seconds. Next, have them sit on the floor with their legs stretched forward and their backs straight. Tell them to reach toward their legs while keeping their back straight and their head in a straight line with their spine. Have them bend from the waist and hold this stretch for at least 15 seconds.

Finally, have the children lie on their backs with their arms extended overhead. Have them stretch their arms and legs in opposite directions and hold this stretch for at least 15 seconds.

**REFLECT** (School Age)

? Ask: Who exercises regularly now? Have children share some of their exercise activities.

? Ask: What activities can you do with friends/family?

? Ask: How much time do you spend each day watching television, playing video/computer games?

? Ask: What other activities might you do instead of watching television, playing electronic games, or using the computer?

**APPLY** (School Age)

Ask the children to discuss with family members, ways in which



## Lesson 1: Get in the Movement Groove

they can spend more time together being active.

Ask the children to keep a list of physical activities they do during the next 24 hours. Suggest that they use this list to motivate themselves to gradually increase their physical activity.

### Outcomes (Middle School • Teen)



The purpose of this lesson is to have youth:

- Examine the benefits of exercise
- Determine why participation in exercise/physical activity is important
- Share activities they can do with friends and family
- Identify the three types of physical activity
- Participate in a physical activity

### Discussion

**DO** (Middle School • Teen) ⌚ 10-15 minutes

? Ask: What are the benefits of exercise and increased physical activity? Have youth list examples on easel. Possible answers:

- Reduce risk for chronic diseases such as heart disease, osteoporosis, type 2 diabetes, high blood pressure, and some cancers
- Feel better, have increased energy and self esteem
- Look better, maintain weight or lose weight
- Help fight anxiety and depression

? Ask: Which of these things is most important to you? Have youth share some of the reasons they want to begin or increase their current physical activity program.

? Ask: What kinds of physical activities do you do on a regular basis? Possible answers: team and individual sports, dance, running, walking, bicycling.

Discuss briefly some of the different kinds of activities that youth may not think of as exercise, but that count as physical activity. Possible answers: cleaning your room, washing your car, dancing, walking the dog.

Explain why warming up muscles before exercise and cooling down afterward is important. It reduces risk for injury during strenuous


### PREPARATION

⌚ 5 minutes

### SET UP

- ❑ Set up easel or hang self-stick easel paper
- ❑ Have children sit around easel or in front of wall
- ❑ Ask for volunteer to record class ideas

### SUPPLIES

- ❑ Easel and markers
- ❑ Activity Pyramid 

## Lesson 1: Get in the Movement Groove



### SUPPLIES

- TV with DVD player
- Aerobic dance DVD or YouTube video such as Zumba, Salsa, or other upbeat music
- Relaxing music

activities and increases flexibility.

Describe the three different kinds of exercises and how they benefit your body. Give examples of each. You may use the Activity Pyramid to illustrate these examples.

- **Aerobic exercise** increases heart and breathing rates, burns calories and strengthens cardiovascular system (lungs and heart). Examples: running, walking briskly, jumping rope, swimming, etc.
- **Strength-training exercises** build strong bones and muscles. Examples: push-ups, chin-ups, sit-ups, rope climbing, weight lifting and running.
- **Flexibility exercises** stretch muscles, tendons and ligaments reducing the risk of injury and improving range of motion and balance. Examples: stretching, martial arts, yoga, dance.

### Activity 2 - Feel The Beat

**DO** (Middle School • Teen) ⌚ 25-30 minutes

This is a three-part activity: warm-up, aerobic exercise, and cool-down.

**Instructor Note:** The duration and intensity of the exercises in this lesson may need to be adapted to accommodate different fitness levels of the youth. The instructor should always provide water breaks during these activities. The breaks should be more frequent in warm weather.

**WARM-UP** ⌚ 5 minutes

Begin playing relaxing music. Explain to youth that this is an exercise to get them moving. They should move or walk to the rhythm of the music. Slow, rhythmic movements can take the place of warm-up and stretching exercises. Start with music that is medium-paced with a strong beat. Ask youth to walk, march or dance to the beat. Continue this activity for at least five minutes.

**AEROBICS** ⌚ 15-20 minutes

Play a dance exercise DVD or YouTube video such as Zumba, Salsa or other high-energy dance aerobics choices that appeal to young people. As the beat picks up, encourage youth to try and keep up. If they are reluctant to do the dance moves, have them walk in place and move their arms to increase the intensity.

The instructor can use this opportunity to point out how breathing

## Lesson 1: Get in the Movement Groove

and heart rate increases as movement increases. Continue this activity for 15-20 minutes.

**Cool-Down** 🕒 5 minutes

Return to more relaxing, slower music or use the cool-down on the dance video. Have youth gradually slow down their activity level until they slowly walk either in a circle or in place. Continue this activity for five minutes.

**REFLECT** (Middle School • Teen)

? Ask: Can you think of ways you can be more active? Why should you be more active?

? Ask: How much time do you spend each day watching television, playing video/computer games?

? Ask: What other activities might you do instead of watching television or other screen time?

**APPLY** (Middle School • Teen)

Ask youth to discuss ways they can be more active when with their friends. Some examples might be having active social get-togethers, walking at the mall, hiking, and impromptu pick-up games. Others? Ask youth to keep a list of physical activities they do during the next 24 hours. Review these activities when the youth next meet as a group.



### Technology Challenge

(All Ages)

To see if you meet the Physical Activity recommendations for Americans, visit the Choose MyPlate site:

<http://www.choosemyplate.gov> and follow these directions:

- Under "Online Tools," Click on "SuperTracker." Find and click on "Create a Profile." You can personalize your profile by entering the information about your age, gender, etc. After entering your weight, click ENTER to bring up the goal section. You will be asked how you want SuperTracker to help you. Enter your goals. If you want to save your profile, take the next step and Register to Save Your Profile. If you don't want to save, it, scroll down to Submit to View Your Plan, and click on "Submit."
- A window opens showing My Plan. This displays your daily food group targets. We will look at those in another part of the lesson. Proceed to "Physical Activity Tracker" and enter

## Lesson 1: Get in the Movement Groove

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- your activity type and duration
- Enter your daily activities for at least one month to see how you rate.

**INSTRUCTOR NOTE:** If multiple students will be working on the same computer, please note that once a Profile is created in SuperTracker, you need to select "Register to Save Your Profile." If not, you will need to delete the profile so the next student can create a new profile. To delete the profile, go back to the SuperTracker page, click on the recently created profile name, then select Manage My Profile, and then click on Delete Account.

## Lesson 2: MyPlate - The Beginning Challenge

### Introduction to Nutrition



#### Outcomes (All Ages)

The purpose of this lesson is to have youth:

- Use MyPlate as a personalized guide for healthy eating and physical activity
- Recognize the significance of portion/serving size in making food choices

#### Instructor Essential Information

MyPlate is based on the USDA 2015 Dietary Guidelines for Americans. The Guidelines are designed to help Americans choose diets that will meet nutrient requirements, promote health, support active lives and reduce the risks of chronic disease.



The MyPlate is all about finding a healthy eating style that works for you. Everything you eat and drink matters. The right mix can help you be healthier now and in future. MyPlate tips and tools offer practical changes that add up to big successes over time. See <http://www.choosemyplate.gov>.

#### PREPARATION

⌚ 5 minutes

#### SET UP

Circle for group discussion

#### SUPPLIES

MyPlate poster [RL](#)

#### Discussion

**DO** (All Ages) ⌚ 10 minutes

Introduce MyPlate. Show the MyPlate poster with the names of the food groups covered up.

? Ask: What does the MyPlate symbol look like to you? Answer: A plate that illustrates the two key aspects of good nutrition – amounts and types of foods from the food groups. Each of the colors in the plate represents one of the five food groups.

? Ask: What are the different colors and which food groups do they represent? Have youth guess. Answers: orange = grains, green =

## Lesson 2: MyPlate - The Beginning Challenge

vegetables, red = fruits, blue = dairy, purple = protein.

? Ask: What are some examples of healthy foods from each group? Possible answers: lean meats, chicken, fish, nuts, beans, green beans, salad, broccoli, whole wheat bread, brown rice, apples, oranges, grapes, low-fat milk, etc.



? Ask: Why do you think the food on the plate is represented by different size sections? Answer: The MyPlate graphic represents examples of approximate amounts of foods we should eat. The fruit and vegetable sections together should make up half of the plate. The orange section stands for grains and takes up about one quarter of the plate. Protein foods are represented by approximately a quarter section of the plate.

? Ask: What do you think the blue circle stands for? Answer: The blue circle represents low-fat or fat-free dairy such as milk, yogurt and cheese, or calcium fortified soy milk.

Tell youth that they will learn more about each food group in subsequent lessons, but for now they should remember the following four messages associated with each part of the plate.

1. Make half your plate fruits and vegetables; focus on whole fruits and vary your veggies
2. Move to low-fat and fat-free dairy
3. Make half of the grains you eat whole grains
4. Vary your protein food choices

### HANDOUTS & BOOKS

- *Using MyPlate in Your Life – 9-13 Year-Olds* p. 164
- OR**
- *Using MyPlate in Your Life – Teens* p. 168
- *MyPlate Daily Checklist instructions* p.172

### Activity 1 - Using MyPlate

(All Ages) 20-25 minutes

This activity has two steps. Youth will first estimate their daily calorie needs, then build an eating plan. The instructor may need to assist School Age youth in estimating their daily calorie needs (Step 1 below).

Youth will need a copy of the *Using MyPlate in Your Life – 9-13 Year-Olds* or *Using MyPlate in Your Life – Teens* worksheets for this activity. See Appendix A for these worksheets and the *MyPlate Daily Checklist Instructions*. Use the *MyPlate Daily Checklist* to show your food group targets – what and how much to eat. Your food plan is personalized your age, sex, height, weight and physical activity. Print the personalized checklist for each child. Or youth can also do this activity

## Lesson 2: MyPlate - The Beginning Challenge

on-line at <http://www.choosemyplate.gov/MyPlate-Daily-Checklist-input>.

Using the handouts or the information from the website, have youth complete the following:

- Step 1 - Estimate Your Daily Calorie Needs
- Step 2 - Build Your Eating Plan

This will help youth to plan meals for the day based on their nutrient needs, including beverages and snacks.

**Instructor Note:** Have youth save the completed handouts, or keep copies in the classroom. They will be used in other lessons.

### PREPARATION



#### SET UP

- Youth can help with the set up.
- Lay food and pretzels out on plates for MyPlate Kabobs.

#### SUPPLIES

See recipe for ingredients and utensils list.

#### HANDOUTS & BOOKS

- *How to Wash Your Hands*  p. 173
- *Recipe: MyPlate Kabobs*  p. 174

### Now We're Cookin' - MyPlate Kabobs

(All Ages)  20 minutes

Have youth wash their hands using the *Proper Handwashing* steps on page 27. There is also a How to Wash Your Hands guide in the Appendix. Youth will make a snack called "MyPlate Kabobs." The recipe is in Appendix A.

**REFLECT** (All Ages)

? Ask: Are you surprised at your caloric needs? Did you think you would need more or fewer calories?



**APPLY** (All Ages)

Make a copy of your worksheets to take home and share with your family.

### Technology Challenge

(All Ages)

- Go to the MyPlate site: <http://www.choosemyplate.gov> Under "Online Tools," Click on "SuperTracker." Find and click on "Create a Profile." You can personalize your profile by entering the information about your age, gender, etc. After entering your weight, you will be asked how you want SuperTracker to help you. Enter your goals. If you want to save your profile, take the next step and Register to Save Your Profile. If you

## Lesson 2: MyPlate - The Beginning Challenge

don't want to save, it, scroll down to Submit to View Your Plan, and click on "Submit."

- NOTE: School Age may use the My Plate Maze. Go to <https://choosemyplate-prod.azureedge.net/sites/default/files/audiences/Maze.pdf> Print it out and have children work their way to a healthy plate.
- A window opens showing My Plan. This plan shows your daily food group targets — what and how much to eat within your Calorie allowance. Enter your meals in Food Tracker to see how you stack up.
- The "My Plan" page appears. This plan shows your daily food group targets — what and how much to eat within your Calorie allowance. Enter your meals in Food Tracker to see how you stack up. Print a copy for use later.

**INSTRUCTOR NOTE:** If multiple students will be working on the same computer, please note that once a Profile is created in SuperTracker, you need to select "Register to Save Your Profile." If not, you will need to delete the profile so the next student can create a new profile. To delete the profile, go back to the SuperTracker page, click on the recently created profile name, then select Manage My Profile, and then click on Delete Account.

## Lesson 3: The Importance of Good Hygiene



### Outcomes (All Ages)


The purpose of this lesson is to have youth demonstrate good personal hygiene through proper handwashing.

### Instructor Essential Information

The Partnership for Food Safety Education (PFSE) is your resource for food safety and safe food handling information. The “Fight BAC!” message is: Clean, Separate, Cook, Chill. This lesson deals with the “Wash Your Hands” part of the “Clean” message. Check out this website for more complete food safety messages: <http://www.fightbac.org>.

We know that the primary way in which bacteria get into your food is from your hands. According to the Centers for Disease Control and Prevention, the single most important thing we can do to keep from getting sick and spreading illness to others is to wash our hands. There is a *How to Wash Your Hands* guide in the Appendix for your use.

### HANDOUTS & BOOKS

*How to Wash Your Hands*  p. 173

### SUPPLIES

- ❑ Handwashing poster
- ❑ 4 lbs miniature jelly beans
- ❑ 5 graduated size plastic containers with tight fitting lids
- ❑ ¼ cup measuring cup



### PROPER HANDWASHING

Review the steps for washing your hands correctly.

1. Wet hands with warm running water prior to reaching for soap, either in bar or liquid form.
2. Rub hands together to make lather. Do this away from running water, so the lather isn’t washed away. Wash the front and back of hands, between fingers and under nails. Continue washing for 20 seconds. Sing Happy Birthday twice or sing the ABC’s as a way to count 20 seconds in a fun way.
3. Rinse hands well under warm running water.
4. Dry hands thoroughly with a clean, single-use towel or air dryer.
5. Note that alcohol-based hand sanitizers, gels or antibacterial wipes are not a substitute for properly washing hands and should only be used when soap and water are not available.

### SET UP DETAILS


To create Germ Jars, you will need five plastic containers filled with jelly beans to illustrate the 2-hour food safety rule for perishables. The miniature jelly beans represent germs. The five containers need these quantities of jelly beans: 5, 20, 80, 320, and 1,280. Instead of counting the jelly beans for each one, use a measuring cup to estimate the number of jelly beans being placed into a container. Do this by counting the number that fit into a ¼ cup measure and then use that number to estimate the quantities.

## Lesson 3: The Importance of Good Hygiene

### HANDOUTS & BOOKS

- ❑ *Buddy Bear's Handwashing Troubles* book [RL](#)
- ❑ *How to Wash Your Hands* [A](#) p. 173

### PREPARATION

 30 minutes

### SET UP

Make jelly bean Germ jars. See Set Up Details.

### SUPPLIES

- ❑ Black light [RL](#)
- ❑ GlitterBug lotion or powder [RL](#)
- ❑ Handwashing poster
- ❑ 4 lbs miniature jelly beans
- ❑ 5 graduated size plastic containers with tight fitting lids
- ❑ ¼ cup measuring cup

### Discussion

[DO](#) (School Age)  15 minutes

Read *Buddy Bear's Handwashing Troubles*. Discuss the importance of proper handwashing. This will prepare children for the GlitterBug activity.

### Activity 1 - Cleaning 101

[DO](#) (Middle School • Teen)  20 minutes

Go to the American Cleaning Institute website <http://www.cleaninginstitute.org> to find out how and when you should wash your hands. Scroll to the bottom of the page and click on "Kids Corner." Download a handwashing page or poster to hang up by the handwashing sink.

### Activity 2 – Hygiene & Food Safety

[DO](#) (All Ages)  20 minutes

Discuss the importance of good personal hygiene to food safety. Review the proper handwashing steps. Have everyone take the Handwashing Challenge.

#### HANDWASHING CHALLENGE

You will be using the GlitterBug lotion or powder and black light to illustrate proper handwashing.

- Put a pearl-sized drop of glow lotion or powder on youth's hands.
- View hands under the black light.
- Have the group wash their hands.

Have them check their hands under the black light to see how thoroughly they have washed. Any areas that are still "glowing" are areas that need to be washed more thoroughly.


**Instructor Note:** Dry hands and calluses absorb some of the lotion so even after washing well you may still see some "glowing."

#### GERM JARS

To illustrate the importance of the USDA two-hour food safety rule, which is "No perishables should be left at room temperature for more than two hours," show the "Germ Jars" and describe as follows. Pick up the jar with five jelly beans in it and say we have

## Lesson 3: The Importance of Good Hygiene

### HANDOUTS & BOOKS

*How to Wash Your Hands*  p. 173

### SUPPLIES

- One flip chart
- Paper
- Tape
- Markers

five bacteria to start with. Every 15-20 minutes the number of bacteria doubles. Point out the appropriate germ jars and say, at 0 minutes there are 5 bacteria; at 30 minutes, 20 bacteria; at 60 minutes, 80 bacteria; and at 90 minutes, 320 bacteria. After two hours there are 1,280 bacteria.

### Activity 3 – When To Wash Your Hands

**DO** (All Ages)  20 minutes

It is important to wash your hands after many activities. Divide youth into two groups. Have each group think about when they should wash their hands. Have them write their answers on strips of paper or brainstorm ideas. Examples:

- When you are preparing food
- After you go to the bathroom
- After you blow your nose
- When you come in from play
- After you sneeze
- Before you eat
- After playing with your pet



Have each group post their answers on the wall or flip chart. Discuss the two groups' answers.

**REFLECT** (School Age)

? Ask: What did Buddy learn about germs? About handwashing? About when to wash?

**REFLECT** (Middle School • Teen)

? Ask: Why is handwashing so important?

### Technology Challenge

(All Ages)

Go to the American Cleaning Institute website <http://www.cleaninginstitute.org> and get the recipe for bubbles and tips on proper handwashing by scrolling down and clicking on "Kids Corner." Read about the art and science of making bubbles, and then make your own.

(Middle School)

Check out the Centers for Disease Control and Prevention's Podcast on: "Kids Teaching Kids ... Clean Hands Save Lives!"

<http://www2c.cdc.gov/podcasts/player.asp?f=6037>

## Lesson 4: In Beat – The Heartbeat

### Aerobic Physical Activity

#### PREPARATION

🕒 5 minutes

#### SUPPLIES

Activity Pyramid poster [RL](#) p.257



#### Outcomes (School Age)

The purpose of this lesson is to have children:

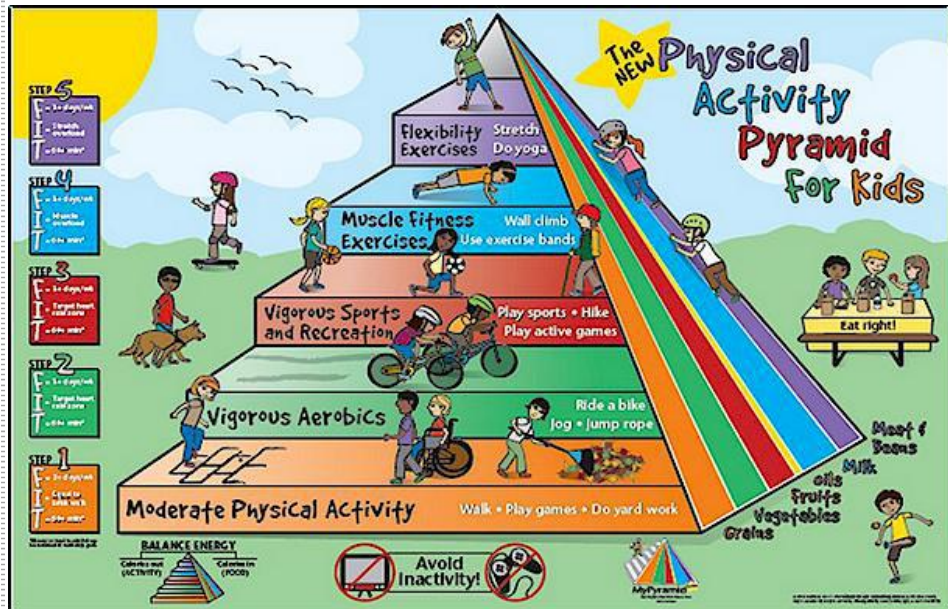
- Understand the difference between aerobic and non-aerobic activities
- Calculate their heart rate before, during, and after exercise
- Participate in warm-up, aerobic, and cool-down activities

#### Discussion

**DO** (School Age) 🕒 15 minutes

? Ask: What activities have you done recently that were aerobic and made your heart beat faster?

Talk about the differences between exercises that make your heart beat faster for a longer period of time such as running, swimming, basketball, bicycling, and those that don't last as long such as push-ups, sit-ups, stretching, etc. Explain that healthy people need a combination of all exercises. You may wish to use the *Activity Pyramid* poster to illustrate this.



Tell the children that during aerobic exercise, your heart, lungs and blood vessels work harder because your body needs more oxygen and blood for the working muscles.

## Lesson 3: The Importance of Good Hygiene

Explain the importance of time, intensity, and frequency of physical activity for youth as follows. The United States Department of Health and Human Services Physical Activity Guidelines for Americans <https://health.gov/paguidelines/guidelines/children.aspx> recommend that youth do moderate or vigorous intensity activity at least 60 minutes each day. They should also do muscle and bone strengthening activity at least three times a week. Exercises such as jumping rope and playing soccer can be moderate or vigorous activities that also help build muscle and bone.

You may use the Activity Pyramid to show that moderate or vigorous physical activity can mean anything from riding a bicycle to playing at the playground.

### SUPPLIES

Clock or wristwatch with a second hand.

### Activity 1 - Calculate Your Heart Rate

DO (School Age) ⌚ 15 minutes

Demonstrate how to calculate a heart rate using either the carotid (neck) or wrist methods. Explain that your pulse is easier to find after you've been exercising because your heart is beating faster and harder, so calculate the heart rate immediately after stopping activity.

- **Carotid Method** – Using the carotid artery, lightly place your index and middle fingers together on one side of your neck just below your jawbone. Press lightly with your fingers until you feel your pulse. Have youth calculate their resting heart rate.

**Instructor Note:** If you see any youth pressing on both sides of their neck, reiterate that they should press on one side only. This caution relates to the possibility of passing out if both sides of the neck are pressed after exercise.

- **Wrist Method** - Turn your right arm so that the palm of your hand is facing up toward the sky. Place your left index and middle fingers together on the right side of your right wrist. Press lightly until you feel a pulse. Using the second hand on a clock or watch, tell youth to begin counting their pulse when you say "start." Tell them to stop counting at 10 seconds. Youth will take this number and multiply it by six to find their resting heart rate. Example: your measured heart rate during 10 seconds is 12.  $12 \times 6 = 72$ . 72 is your resting heart rate.

Have youth practice calculating their heart rates as they move, first walking and then jogging. Discuss how their heart rate increases as



## Lesson 3: The Importance of Good Hygiene

### SUPPLIES

- ❑ A variety of upbeat music
- ❑ Jump ropes
- ❑ Clock or wristwatch with a second hand



they change from walking to jogging.

### Activity 2 - Warm-Up, Aerobics, Cool-Down

**DO** (School Age) ⌚ 30 minutes

This is a three-part activity in which youth participate in a warm-up activity, an aerobic activity, and a cool-down activity.

**Instructor Note:** The duration and intensity of the exercises in this lesson may need to be adapted to accommodate different fitness levels of the youth. The instructor should always provide water, especially in warm weather.

#### WARM-UP: A WALK IN THE FOREST ⌚ 5 minutes

Have group members stand facing you to mirror your movements. Each youth should have at least one arm's length of space on all sides to move about freely.

This activity is designed to warm-up the body prior to physical activity. Feel free to use your imagination as you narrate your Walk in the Forest and to add other events or features to your adventure!

The leader begins the Walk In The Forest activity by saying: Imagine you are walking through the forest on a sunny day and you notice lots of beautiful clouds in the sky. Reach your arms up (arms go up) and stretch your fingers to touch the clouds. Keep stretching to try and feel those fluffy, beautiful clouds. Higher and higher you reach towards the clouds. Continue marching and stretching arms up overhead for 1-2 minutes.

While still marching, begin snapping your fingers and say, All of a sudden, the rain starts to come down. At first, the rain is light (keep snapping fingers). Then the rain starts to fall harder and harder. Clap your hands softly, getting louder and louder. Continue marching and clapping for 1-2 minutes.

While still moving and marching say, the forest is very overgrown in this part of the woods and you need to push tree limbs and bushes out of the way. Bend slightly and move your arms in large sweeping movements in front of you moving imaginary tree limbs out of your way.



Begin to jog in place slowly and progressively speed up while still clapping and say, all of a sudden you see a bear in the woods and it is coming toward you! Run as fast as you can to get away from the bear. Hurry, hurry! The bear is catching up! Continue running for one minute.

## Lesson 3: The Importance of Good Hygiene

Whew! We finally lost the bear. Let's continue on our way through these beautiful woods. Look! The sun is coming out and the rain is stopping. Slow down to a walk and quietly snap fingers. Oh, there are those beautiful clouds again. Let's stretch our arms up again to say hello to the sun and clouds. Walk slowly and stretch arms up.

### **AEROBICS: PROGRESSIVE JUMP ROPE** ⌚ 15-20 minutes

Play fast-paced music appropriate for jumping rope. Move to an area where each youth can jump freely without interference. Give each youth a jump rope and let them experiment jumping on one foot and then on two. Ask the youth to see if they can jump continuously using any method for one minute.

Next, challenge youth to jump for two minutes without stopping. After continuous jumping for several minutes, have youth stop and calculate their heart rates. To vary this activity, have youth come up with alternate ways to use their jump ropes. Suggest they form groups of 3-4 to develop jumping games or obstacles courses with their ropes. For more information on jumping, see Chapter 5, Lesson 3, Jump Into Fitness.

### **COOL-DOWN: USING THE JUMP ROPE** ⌚ 5 minutes

Play relaxing music for cool-down. While holding their jump ropes, have youth form a circle or stand at arm's length from each other. Tell youth to double or triple their ropes and hold the two ends above their heads. Pulling the ends of the rope tightly, have the youth stretch their arms upwards pulling the rope taut. Hold this stretch for at least 15 seconds. Repeat. Next, with the rope still overhead, have youth lean to the right and hold for 15 seconds and then repeat on the left side. Repeat stretch on both sides.



Tell youth to sit on the floor with legs straight out in front of them. Have youth loop the rope around the bottom of their feet, holding the ends of the rope in both hands. Have them gently pull their upper bodies towards their legs using the rope to pull their bodies forward bending from the hips not the waist. Have them keep their spines and neck in a straight line. Hold this stretch for 15 seconds and repeat two more times.

Tell youth to lie on their backs with their left leg bent and left foot flat on the floor. The right leg is held straight up. Place the doubled jump rope around the right calf and gently pull the right leg toward the body with the rope. Hold for 15 seconds. Repeat on the left leg. Repeat this exercise several times on both legs. Youth should be able to pull their legs in closer toward the body each time, but should not force the stretch.

## Lesson 3: The Importance of Good Hygiene

### REFLECT (School Age)

? Ask: Did you notice other changes in your body when your heart rate increased during the jump rope activity. What were these changes? Answer: increased breathing rate and sweating.

? Ask: What are some of the different ways you can use jump ropes to exercise?


? Ask: Where does jumping rope fit into the Physical Activity Pyramid? Answer: aerobic.

### APPLY (School Age)

Make a list of aerobic physical activities you can do at home that need little or no equipment. Calculate your heart rate several times over the next few days while you are doing different activities. Write these numbers down and determine which activities make your heart beat faster.

## Lesson 3: The Importance of Good Hygiene



### PREPARATION

 10 minutes


### SET UP

- ❑ Place heart rate chart on wall
- ❑ Designate an official time keeper
- ❑ Have heart rate logs and pencils ready for each youth
- ❑ Divide youth into two groups

### SUPPLIES

- ❑ A variety of upbeat and relaxing music
- ❑ Jump ropes
- ❑ Pedometers, fitness tracker or smart phone  p.257
- ❑ Pencils
- ❑ Watch with a second hand
- ❑ *Heart Rate Chart* poster  p.257

### HANDOUTS & BOOKS

Heart Rate Log  p. 175

### Outcomes (Middle School • Teen)



The purpose of this lesson is to have youth:

- Understand the difference between aerobic and non-aerobic activities
- Understand the importance of monitoring heart rate
- Calculate heart rate before, during and after exercise
- Participate in warm-up, aerobic, and cool-down activities
- Practice using a pedometer to measure steps

### Discussion

 (Middle School • Teen)  15 minutes

Use the Discussion for School Age youth found on page 30.

### Activity 1 - Calculate Your Heart Rate

 (Middle School • Teen)  15 minutes

Use instructions for Activity 1 - Calculate Your Heart Rate for School Age youth found on page 30. Give youth the *Heart Rate Log* handout, which can be found in Appendix A. Have them record their resting heart rate on their log.



### Activity 2 - Warm-Up, Aerobics, Cool-Down

 (Middle School • Teen)  30 minutes

This is a three-part activity where youth will participate in a warm-up activity, an aerobic activity, and a cool-down activity. Divide the youth into Group 1 and Group 2 so that each group can do a different aerobic activity.

#### WARM-UP - A WALK IN THE FOREST 5 minutes

Use the instructions for Activity 2 - Warm-up for School Age youth found on page 32.

#### AEROBICS 15-20 minutes

Follow these instructions to check your heart rate twice during the exercise:

- Have designated timekeeper stop activity after 10 minutes so youth can check heart rates.
- Have the timekeeper stop activity after 20 minutes so youth

## Lesson 3: The Importance of Good Hygiene



can check their heart rates.

- Have youth record their 10 and 20-minute heart rates on their logs at the end of the aerobics activity.

**Group 1 - Progressive Jump Rope** Use the instructions for Activity 2, Aerobics - Progressive Jump Rope, for School Age youth found on p. 33. Instruct the designated timekeeper to stop the activity after 10 minutes to do a group heart rate check. Have youth record their 10-minute heart rates in their logs.

**Group 2 - How Far is 1,000 Steps?** Remind youth that walking is an excellent form of exercise that needs no special equipment but has many benefits. This walking activity can be conducted outdoors or indoors, on a flat surface or on stair steps.

- Explain to youth that pedometers, fitness trackers or smart phones are great motivators to get moving. Explain that walking with these devices can help you meet daily exercise goals, challenge yourself to improve, and have fun as you keep track of your steps!
- If using a pedometer, attach it to a waistband or belt. Clear the pedometer by pushing the reset button. Make sure pedometers are set to "Step" and not to miles or kilometers.
- Instruct the designated timekeeper to stop the activity after 10 minutes to do a group heart rate check. Have youth record their 10-minute heart rates in their logs.
- Have youth walk around the designated area, beginning slowly, then gradually walking more briskly. Challenge youth to see if they can register 1,000 steps on their device.

**NOTE:** If you do not have pedometers or other fitness tracker, use this formula: 20 minutes of moderately brisk walking is equal to one mile (2,000 steps). Thus, 10 minutes of brisk walking is equal to 1,000 steps. Also, pedometers are inconsistent in their readings and recorded number of steps may vary.

**COOL-DOWN - USING THE JUMP ROPE** ⌚ 5 minutes

Use the Activity 2 - Cool-down instructions for School Age youth found on page 33.

**REFLECT** (Middle School • Teen)

Ask youth to compare resting heart rates with heart rates after 10 and 20 minutes of exercise as recorded in their logs.

**? Ask:** Looking at your heart rate log, is there a difference between the heart rates of the rope jumpers versus the walkers? Why or why not? Answer: rope jumpers' heart rates will be higher than walkers

## Lesson 3: The Importance of Good Hygiene

because jumping rope is a higher intensity exercise.

? Ask: Is your heart working in the beneficial range? Find out by comparing your exercising heart rate with the heart rate chart. If not, how might you increase your exercise intensity?

? Ask: Were you surprised by how quickly you were able to walk 1,000 steps?

**APPLY** (Middle School • Teen)

Make a list of aerobic physical activities you can do at home that need little or no equipment. Take a friend or family member for a walk and see if you can walk at least 20 minutes without stopping. Calculate your heart rate several times over the next few days while you are doing different activities. Write these numbers down and look at the activities that make your heart beat faster.

### Technology Challenge

(Middle School • Teen)

Find out how to increase your heartbeat. Visit <http://www.presidentschallenge.org> and click on "Participate in Programs" and learn more about increasing physical activity. Remember every journey begins with a first step.

## Lesson 5: Think Your Drink



### Outcomes (All Ages)

The purpose of this lesson is to have youth:

- Describe how empty calories in sodas often replace the healthier beverages such as milk, water and juice
- Learn to use nutrition labels to compare drink choices
- Compare the taste and fat content of different types of milk and be encouraged to select low-fat dairy
- Prepare a quick and simple nutritious drink

### Instructor Essential Information

This lesson helps youth understand why beverages are important. Beverages are mostly water, a nutrient that is essential to life. In fact, a lot of your body is water -- from 55 to 70 percent of your total body weight. Every one of our body functions depends on water. You can only live a few days without it.

#### JUICES, SODAS, PUNCHES, JUICE-LIKE DRINKS

Most juices provide vitamin C to help heal cuts and bruises, fight infection and better use iron from food. Vitamin A, found in some juices, contributes to healthy eyes and skin. Fruit or vegetable juice contains carbohydrates in the form of natural sugars or starches that are used for energy. One serving of juice a day (3/4 cup) is enough. Juice is high in calories. Read the label and look for 100% fruit juice rather than fruit drinks or punches. Avoid the empty calories in sodas and juice drinks.

MyPlate suggests that most of us should eat or drink three low-fat or fat-free dairy foods every day to get enough important nutrients such as calcium, protein, Vitamin A, Vitamin D, magnesium, and potassium. Unfortunately, many Americans fail to consume the currently recommended three daily servings of dairy foods or soy milk.

Combining physical activity with three servings of low-fat or fat-free dairy foods helps build strong bones. Youth need plenty of calcium as well as Vitamin D and physical activity for their growing bones. Youth's bones grow the most between ages 11 and 18.



Sugary drinks are poor nutritional choices and often take the place of nutrient-rich low-fat milk or water. Sodas are mostly water, sugar or sugar substitute, and a little flavoring. Sugared sodas are a source of empty calories.

## Lesson 5: Think Your Drink

### PREPARATION

🕒 2¾ hours  
Includes grocery shopping, classroom set up, and making fat test tubes (60-90 minutes to prepare stations)

### SET UP

See Set Up Details.

### SUPPLIES

- ❑ See recipes for ingredients and utensils list
- ❑ Poster or picture of skeleton

### Fat Test Tubes

- ❑ 4 test tubes or small containers with lids (baby food jars, plastic containers)
- ❑ Vegetable shortening
- ❑ Measuring spoons
- ❑ Microwaveable container
- ❑ Labels & Markers

### Make Mine Orange

- ❑ Empty 20 oz. bottles with tops: orange soda, orange drink, orange juice, orange beverage or punch with tops
- ❑ Teaspoon measure
- ❑ Sugar or individual sugar packets
- ❑ Funnel

### REGULAR FAT VS LOW-FAT

What is the difference between regular fat and low-fat dairy foods? Dairy foods can be high in fat, especially the harmful kind, saturated fat. Low-fat dairy products, which are 1% fat or less, are the healthiest choice for all children over two years old.

### SET UP DETAILS

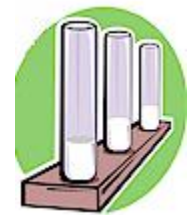
Have youth help with the set up whenever possible. Prepare the four stations using the supplies listed at left: Fat Test Tubes, Make Mine Orange, Soda Anyone?, and Taste It and Decide!

### FAT TEST TUBES

This station provides a visual representation of the amount of fat contained in four kinds of milk. Use vegetable shortening to represent fat. Weigh or measure the amount of fat needed for each tube using the list of fat in each kind of milk below. For example, use 8 grams of vegetable shortening for whole milk since it contains 8 grams of fat. Note that 5 grams of fat is equivalent to 1 teaspoon of shortening.

Different kinds of milk have different amounts of fat. Here is the fat content for one 8 ounce cup of several kinds of milk.

- Whole milk – 8 grams of fat (1.6 teaspoons)
- 2% milk – 5 grams of fat (1 teaspoon)
- 1% milk – 2.5 grams of fat (1/2 teaspoon)
- Fat-free – 0 grams of fat



Place a few tablespoons of vegetable shortening into a microwaveable container and melt it in the microwave. This will only take a few seconds. Pour the melted shortening into the fat tubes.

Find a safe and sturdy place where test tubes can cool in an upright position. Put the lid on each tube and set in a safe place while it cools to become a solid. Label the tubes describing the number of grams of fat in each. The tubes can be stored in the freezer for future use.

**Instructor Note:** When you store the test tubes, remember that warm temperatures will melt the shortening and make them messy to use. You may substitute paraffin wax for shortening.

### MAKE MINE ORANGE

Make a visual representation of the amount of sugar in different drinks. Refer to the labels on the empty bottles of these drinks to determine the amount of sugar they contain: orange soda, orange drink, orange juice, and fruit beverage or punch. Four grams of sugar equals 1 teaspoon. Using a funnel, pour the total amount of

## Lesson 5: Think Your Drink

### Soda Anyone?

- ❑ Empty Coke bottle
- ❑ Sugar
- ❑ Funnel
- ❑ Measuring spoons


### Taste It And Decide!

- ❑ Small cups
- ❑ Full milk cartons and empty cartons of whole milk, 2% milk, 1% milk, fat-free milk, low-fat chocolate milk, lactose-free milk

### SUPPLIES

- ❑ Poster or picture of skeleton
- ❑ Fat Test Tubes Station (see Setup Details)
- ❑ Taste It and Decide Station (see Setup Details)

### HANDOUTS & BOOKS

*Can You Guess How Much Fat Is In Each Cup of Milk?*  p. 176



sugar into each bottle or use individual sugar packets to represent one teaspoon.

### **SODA ANYONE?**

Place the supplies shown at left at each station.

### **TASTE IT AND DECIDE!**

Read the supply list and have supplies ready in the refrigerator. Make copies of the handout *Can You Guess How Much Fat Is In Each Cup of Milk?* Label cups with the letters A, B, C, D, E, and F, to correspond with the different types of milk as shown below. Do not let the youth see which type of milk goes into the cups. Pour these different types of milk into cups.

- A = whole milk
- B = 2% milk
- C = 1% milk
- D = fat-free milk
- E = chocolate milk
- F = low-fat chocolate milk



## Activity 1 - Low-Fat Or Fat-Free Dairy

 (All Ages)  45 minutes

Show youth a model or photo of a skeleton. Explain that the skull is a bone. Point out the ribs.

? Ask: Which organ does the skull protect? Answer: the brain.

? Ask: Which organs do the ribs protect? Answers: heart, lungs, and parts of the stomach, spleen, and kidneys. It is important to have strong bones to protect vital organs.

Describe the difference between regular and low-fat or fat-free milk, sour cream, yogurt, and cheese. Refer to the grams of fat in each kind of milk under set up details on p. 39. Explain that it is important to choose the low-fat or fat-free dairy products because they have less saturated fat, which has been linked to chronic disease.

? Ask: How many of you drink 1% or fat-free milk? Stress that 1% and fat-free milk are considered low-fat choices whereas 2% and whole milk are not.

There are important nutrients in milk that help us create and maintain strong bones. The 2015 Dietary Guidelines recommend

## Lesson 5: Think Your Drink



three cups of low-fat or fat-free dairy per day to meet our daily requirements.

Go to the Fat Test Tubes station. Use the test tubes and empty milk cartons to illustrate the different amounts of fat found in one cup of different types of milk. Explain that youth can look at the labels to get the nutrition facts for each product.


Go to the Taste It and Decide! station. Give each youth a copy of the handout *Can You Guess How Much Fat Is In Each Cup Of Milk?* Have youth taste the milk and record their choices. The point of this activity is to demonstrate that they may find that lower fat milk is just as tasty as a higher fat choice. Once youth have completed their forms, reveal the labels.

? Ask: Who in the group would be willing to drink a lower fat milk choice based on this tasting? How would you encourage your family members to purchase lower fat milk products? How many grams of fat would you save by drinking the lower-fat choice?

### SUPPLIES

- ❑ Soda Anyone? Station (see Setup Details)
- ❑ Make Mine Orange Station (see Setup Details)

### HANDOUTS & BOOKS

*10 Tips: Make Better Beverage Choices*   
p. 177



### Activity 2 - Look At All That Sugar!

**DO** (All Ages) ⌚ 20 minutes

At the Soda Anyone? station, have one youth measure the amount of sugar in a 20-ounce bottle of Coke. Next, display the visual representations of the amount of sugar in the five different drinks in the Make Mine Orange station that you set up before class.

? Ask: How many sodas do you drink in a week?

? Ask: If you multiply the number of sodas you drink in a week times 52, how many sodas do you drink in a year? Calculate how much sugar you drink from sodas in a year.

**REFLECT** (All Ages)

? Ask: What happens when you drink a lot of soda? Answers: excess empty calories, tooth decay, replaces healthy drinks such as milk and water

? Ask: What can you do to make smart drink choices? Answers:




- Drink milk with meals, for snacks, smoothies, etc.
- Choose juice or water rather than soda from vending machines

## Lesson 5: Think Your Drink


### SUPPLIES

See recipes for ingredients and utensils list.

### HANDOUTS & BOOKS



- ❑ *How to Wash Your Hands*  p. 173
- ❑ Recipe: *Three Fruit Drinks*  p. 178
- ❑ *Ice Cream Personality Test*  p. 179

### HANDOUTS & BOOKS

*Ice Cream Personality Test*  p. 179

- Drink soda only occasionally; pour a glass rather than drink from a large bottle
- Drink water
- Don't super-size
- See *10 Tips: Make Better Beverage Choices*.

### Now We're Cookin' – Three Fruit Drinks

 (All Ages)  15-30 minutes depending on recipes

Have youth wash their hands using the *Proper Handwashing* steps on page 27. Have youth break into groups to prepare the following recipes. See the recipes for *Three Fruit Drinks* in Appendix A for ingredients and steps.

- *Fruit Juice Spritzer*
- *Juice Float*
- *Power Me Up Smoothie*



Put samples of all three drinks into small cups and have youth taste these delicious and healthy drinks.

 (All Ages)

Check the kind of milk in your home refrigerator. How can you influence your family to select lower fat milk?

### Technology Challenge

(All Ages)

Go to: <http://www.icecream.com> Click on "Ice Cream Quiz" and see what your personality says about your favorite ice cream flavor. The Ice Cream Personality Test results are in the appendix.

Go to: <http://www.nationaldairyCouncil.org> and learn about the health benefits of drinking milk.



## Lesson 6: Muscle Mania - Move it or Lose It

### Strength and Weight-Bearing Activities



#### Outcomes (All Ages)

The purpose of this lesson is to have youth:

- Understand the relationship between strong bones, muscles, and exercise
- Participate in a warm-up activity
- Participate in a strengthening activity
- Participate in a cool-down activity

#### Instructor Essential Information

If the space required for this program is unavailable, the instructor may divide the lesson into parts and do only two to three stations at a time.

**Instructor Note:** The duration and intensity of the exercises in this lesson may need to be adapted to accommodate different fitness levels of the youth. The instructor should always provide water, especially in warm weather.

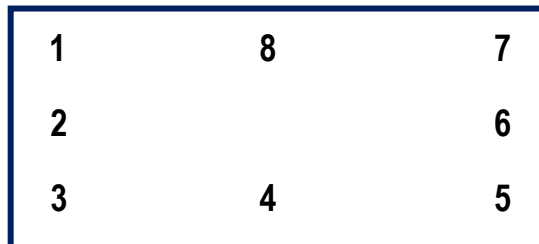
#### SET UP DETAILS

Before the lesson begins, set up the eight circuit training stations shown below either in a large room or in a large level outdoor area. The area can be grassy or paved. The area should be large enough to allow a shuttle run to take place in the middle and an endurance run around the outside of the stations.

#### CIRCUIT TRAINING STATIONS

- |                |                  |              |
|----------------|------------------|--------------|
| 1. Push-ups    | 4. Endurance Run | 7. Ball Pass |
| 2. Shuttle Run | 5. Crunches      | 8. Jump Rope |
| 3. Wall Sits   | 6. Bicep Curls   |              |

Follow the diagram below to set up the circuit training stations. The specific equipment needed at each station is described in Activity 1 on page 45.



## Lesson 6: Muscle Mania - Move it or Lose It

### SUPPLIES

5 lb fat and muscle models **RL**

### PREPARATION

⌚ 20 minutes

### SET UP

Set up 8 circuit training stations with the equipment needed, see Set Up Details.

### SUPPLIES

Amounts determined by number of youth in each group.

- Dyna-Bands or light hand weights (1-5 lbs)
- Cones or other markers
- Masking tape
- Mats or towels
- Jump ropes
- Large balls
- Stop watch or watch with second hand

### Discussion

**DO** (All Ages) ⌚ 5 minutes

Remind youth that strong bones are a result of weight-bearing exercise and a healthy diet that includes three servings of low-fat dairy. Show youth the 5 pound fat and muscle models and ask them to describe the differences. Point out that while both models weigh the same, the fat model is larger and bumpy, while the muscle is smoother and denser. Tell youth that muscle burns more calories than fat.

? Ask: What are some examples of weight-bearing activities? Possible answers: running, rope jumping, basketball, weight lifting.

? Ask: What are the benefits of weight-bearing or strengthening activities? Possible answers: improves balance, increases muscle mass, increases metabolism, increases strength, strengthens bones, decreases risk for diseases such as osteoporosis, arthritis, and type 2 diabetes (improves glucose control).

### Activity 1 Circuit Training

**DO** (All Ages) ⌚ 45-50 minutes

#### WARM-UP ⌚ 5 minutes

Ask for a volunteer to lead the group in a game of Simon Says. The leader stands in front of group and gives commands for movement. For example, the leader says "Simon says take three giant steps." All youth do this.

The leader continues with simple movements like walking and stretching arms and legs for 3-5 minutes. Include movements such as "giant steps", "arm circles" marching, etc.

#### STRENGTHENING ⌚ 35-40 minutes

Introduce group to the eight-station Circuit Training course. First, lead youth through each station and demonstrate the activity. Explain that youth will do each activity for two minutes, walk for two minutes, then rotate to next station until all stations have been completed.

Explain that the object is to do each activity in good form following the instructions as written; it is not a race to see who can be the fastest. Be sure that youth understand that the instructor is the official timekeeper.

## Lesson 6: Muscle Mania - Move it or Lose It

Divide youth equally into groups. Assign each group a different station to begin the activity. Youth must wait for the "start" and "stop" signals.

The instructor will begin by saying "Start." Each activity will last two minutes, then the instructor will say "Stop." At the end of each activity, youth will walk around the perimeter of the circuit training area for two minutes until the instructor says "Stop." At the end of each walk, youth rotate clockwise to the next station. Have youth repeat this process until each group completes all stations.

- **Station 1 - Push-Ups**

(builds arm, shoulder and upper back strength) Youth lie face down, palms down under the shoulders and legs slightly apart with toes "propped" against floor. The youth push their arms up until they are straight and then lower their bodies until their elbows reach a 90° angle. The head and spine stay in a straight line. Do not let the head drop. If needed, youth can do a modified push up with weight on knees rather than toes.

- **Station 2 - Shuttle Run**

(builds overall endurance and leg strength) Determine a starting line and mark several spots progressively farther away. Use lines on gymnasium floor if you have access to a gym. You can also use cones or whatever is available to mark the spots. Have youth sprint to the first marked spot on the floor, then sprint back to the starting line. Youth turn around and sprint to the next marked spot. Sprint back to the starting line, then forward to the third marked spot. Continue this pattern until youth have worked their way across the room or field. This can also be done at a brisk walk for youth who are unfit or do not want to run.

- **Station 3 - Wall Sits**

(builds thigh muscle strength) Youth sit with their backs against a wall with knees bent at a 90 degree angle (thighs parallel to floor). Have youth hold for as long as possible or up to 30 second intervals.

- **Station 4 - Endurance Run**

(builds aerobic strength) Youth jog or walk briskly around the perimeter of the area for two full minutes without stopping.

- **Station 5 - Crunches**

(builds abdominal strength) Youth lie on their backs on the floor with knees bent and feet flat on floor. Arms are straight out at their sides or supporting (but not lifting) the neck. The youth should bring shoulder blades off the mat using their abdominal muscles to lift and then slowly lower



## Lesson 6: Muscle Mania - Move it or Lose It

their shoulder blades back to the floor.

- **Station 6 - Bicep Curls**

(builds upper arm strength) Using Dyna-Bands or light hand weights, have youth step on one end of the Dyna-Band with the right foot to hold it securely in place. Hold the other end of the Dyna-Band tightly in right hand. Keeping elbows tucked in close to the body, have youth pull up the right arm in a bicep curl. The curl should begin with right arm hanging straight, pointing toward the floor. Slowly "curl" the arm up ending with fist at shoulder level. Keep the wrist even with the forearm while curling up. Do two sets of 10 repetitions on both arms. One repetition is the complete lifting of the arm from the straight position to the curled position and down to the straight position again. Each repetition should be done to a slow count of 1-2-3-4 to the curled position and 1-2-3-4 to the down position.

- **Station 7 - Ball Pass**

(builds chest and arm strength) Two youth stand approximately 10 feet apart. Using a ball, the youth will pass the ball at chest level back and forth as many times as possible in two minutes.

- **Station 8 - Jump Rope**

(builds leg and aerobic strength) Allow youth to jump any way they wish as long as they are all moving during the two minute period.



### COOL-DOWN 🕒 5 minutes

Have a second youth lead another round of Simon Says. Focus on large, slow motion movements such as swimming, stretching, or reaching.

### REFLECT (All Ages)

? Ask: Which station did you like the best? Why?

? Ask: What is the connection between the circuit training activities and strengthening exercise? Answer: The circuit training activities are muscle-strengthening activities.

### APPLY (All Ages)

? Ask: Which of these activities could you do at home?

? Ask: What are some of the problems you would encounter at home trying to do these activities? Possible answers: not enough space or lack of equipment.

## **Lesson 6: Muscle Mania - Move it or Lose It**

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? Ask: How could you change the exercises to make them easier to do at home?

### **Technology Challenge**

(All Ages)

Being strong is cool! Learn more about strong bones at <http://www.kidshealth.org/en/kids/bones.html> How can you make your bones strong?

## Lesson 7: Picking Protein



### Outcomes (All Ages)

The purpose of this lesson is to have youth:

- Differentiate between the two types of protein sources – animal and plant
- Prepare and sample plant sources of protein
- Learn the recommended amount of protein for daily needs

### Instructor Essential Information

All foods made from meat, poultry, fish, dry beans or peas, eggs, nuts, and seeds are considered part of the protein food group. Dry beans and peas are part of this group as well as part of the vegetable group. Most meat and poultry choices should be lean or low-fat. Fish, nuts, and seeds contain healthy oils, so choose these foods frequently instead of beef, pork, or poultry. For more information, see

- <https://www.choosemyplate.gov/protein-foods>
- <https://www.choosemyplate.gov/ten-tips-with-protein-foods-variety-is-key>

### SUPPLIES

- ❑ MyPlate poster
- ❑ Food models or Dairy Council food model pictures: fish, beans, nuts, eggs, veggie or tofu burger, etc.
- ❑ Two grocery bags

### SET UP DETAILS

To prepare for the Animal/Plant Protein Relay, arrange the food models or Dairy Council food model pictures of protein sources such as fish, chicken, burgers, eggs, peanut butter, beans, nuts or seeds on one table. Fat one end of the room. Mix the plant and animal types. You will need at least two protein items for each student, so you may need to cut out more pictures of protein foods from food or cooking magazines.

At the other end of the room, place two paper grocery bags - one labeled PLANT PROTEIN, the other labeled ANIMAL PROTEIN.

### HANDOUTS & BOOKS

- ❑ *MyPlate Daily Checklist Instructions* p. 172
- ❑ *10 Tips for Choosing Protein* p. 180

### Discussion

(All Ages) ⌚ 30 minutes



**? Ask:** How does the size of the protein piece on MyPlate compare to the other pieces? Identify the protein section on the MyPlate poster. Discuss the size of the protein section of the plate as compared to fruits and vegetables and grains; i.e., the protein and grain sections are each approximately 1/4 of the size of the plate while the fruits and vegetable pieces together make up one half of the plate. Refer to the *MyPlate Daily Checklist* in Lesson 2: MyPlate – the Beginning Challenge for individual protein requirements for each youth.

## Lesson 7: Picking Protein



? Ask: What kinds of foods are in the meat/protein group? Explain that there are two types of protein: animal-based and plant-based.

? Ask: Can you name some plant-based protein foods? Possible answers: nuts, seeds, legumes, dry beans, soy products.


Show youth food models or Dairy Council food model pictures of animal and plant-based proteins, such as chicken, beef, pork, veal, poultry, fish, or eggs, nuts, peanut butter, seeds, and beans.

Explain to youth that protein is an important nutrient for healthy growth. In the body proteins function as the building blocks for bones, muscles, cartilage, skin and blood, as well as enzymes and hormones.

Remind the group that legumes (e.g., beans) are in the vegetable group too. They fall under both groups because they are plant-based, and they provide a good source of protein. Legumes, soy, and nuts are all sources of plant protein.

The amount of food from the protein foods group you need to eat depends on age, gender and level of physical activity. Most youth need between 4 to 6.5 ounces of protein foods daily. Hold up your hand and show that the palm of your hand is approximately the size of a 3-ounce burger. Foods high in protein provide us with important vitamins and minerals such as vitamin B12, B6, zinc, iron and niacin. Fish, eggs, and lean cuts of meat and poultry are the healthiest animal protein choices. Most Americans eat enough food from this group, but need to make leaner and more varied selections of these foods.

### SUPPLIES

- ❑ Food models or Dairy Council food model pictures: fish, beans, nuts, eggs, veggie or tofu burger, etc. 
- ❑ Two grocery bags, labeled: "ANIMAL PROTEIN," and "PLANT PROTEIN"

### Activity 1 Animal/Plant Protein Relay

 (School Age • Middle School)  15-20 minutes

Divide youth into teams and run a relay race. The object of the race is to grab the food models or Dairy Council food model pictures of plant or animal protein foods from the table at one end of the room and place them in the correct grocery bag at the other end. Bags are labeled by their protein type: "PLANT PROTEIN," "ANIMAL PROTEIN".



Be sure to have enough protein foods to have students run at least twice. At the end of the game, check the bags to determine if youth properly categorized the animal and plant protein sources.

## Lesson 7: Picking Protein

### PREPARATION

🕒 5 minutes




### SUPPLIES

- Pencils
- Paper

### HANDOUTS & BOOKS

- Using MyPlate in Your Life – 9-13 Year-Olds*  p. 164

#### OR

- Using MyPlate in Your Life - Teens*  p. 168
- MyPlate Daily Checklist instructions*  p.172
- How Much Meat and Beans?*  p. 181

### Activity 2 How Much Meat And Beans?

 (All Ages) 🕒 20 minutes



Have students calculate how much protein (meat and beans) they need based on calorie requirements. They can use the handouts from Lesson 2:

- *How Much Meat and Beans? and*
- *Using MyPlate in Your Life – 9-13 Year-Olds or,*
- *Using MyPlate in Your Life – Teen or,*
- *MyPlate Daily Checklist or,*
- Go to <http://www.choosemyplate.gov> and click on the MyPlate, then Protein Foods and then on Daily Protein Foods Table.

### PREPARATION

🕒 5 minutes

### SUPPLIES

- 5 lb fat model 
- 5 lb muscle model 
- Tape measure
- Scales
- Flipchart or blackboard
- Pencils
- Paper

### Activity 3 - Muscle vs. Fat

 (All Ages) 🕒 30 minutes

Display the 5 pound fat and muscle models. Select four youth to record the following for each model on a flipchart or blackboard:

- Weight
- Length
- Circumference
- Describe muscle
- Describe fat






Compare muscle vs. fat. Muscle tissue is more “alive.” It contains more blood and has more metabolic activity than fat. A pound of muscle needs between 35-50 calories a day to function, but a pound of fat needs only three calories a day! Muscle tissue burns a lot more calories than fat, by a ratio of about 14 to 1!

## Lesson 7: Picking Protein

### SUPPLIES

See recipes for ingredients and utensils list.

### HANDOUTS & BOOKS

- ❑ *How to Wash Your Hands*  p. 173
- ❑ Recipe: *Let's Try Black Beans and Corn Salsa*  p. 182
- ❑ Recipe: *Fresh Spinach and Cilantro Salad*  p. 183
- ❑ Recipe: *Walnut Hummus with Apple*  p. 184
- ❑ Recipe: *Good for You and Tastes Good Too – Bean Tacos*  p. 185

## Now We're Cookin' – Salsa, Fresh Spinach and Cilantro Salad, Walnut Hummus, Bean Tacos

(All Ages) ⌚ 35-45 minutes



Have youth wash their hands using the *Proper Handwashing* steps on page 27. Have youth break into groups to prepare any of the following recipes.

- *Let's Try Black Bean and Corn Salsa*
- *Fresh Spinach and Cilantro Salad*
- *Walnut Hummus with Apples*
- *Good for You and Tastes Good Too – Bean Tacos*

### REFLECT (All Ages)

Have youth name all of the foods from the protein group in the recipes they just prepared (beans, nuts).

? Ask: Can you name the foods you typically eat that are sources of protein? As each protein source is named, classify it as a plant protein or an animal protein. Highlight that some protein sources are high in saturated fat, which has been linked with chronic disease. For example, both steak and peanut butter are protein sources and contain fat. However, nuts are healthier because they contain "good" fat versus the saturated fat in steak. This is a good opportunity to discuss portion size and how the food is prepared, both of which contribute to calorie and fat content.

? Ask: How do you think your servings of protein compare to what is recommended for you by SuperTracker? Do you eat more than the recommendation? Refer to the handouts used at the beginning of the lesson.

### APPLY (All Ages)

At home, try a meal that uses a different type of protein than you are used to, such as beans or lentils. Share the recipes you just prepared with your family and friends.

## Lesson 7: Picking Protein

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### Technology Challenge

(All Ages)

Have youth go to the web page: <http://www.choosemyplate.gov> Under "MyPlate", click on "Protein Foods," then on "Daily Protein Foods Table" to out how much protein you need each day. Click on "Food Gallery" to see the many choices of protein sources.

Have youth go to <http://www.incredibleegg.org> Browse through the recipes and then scroll down to find out more about eggs.

Visit <http://www.soyconnection.com> and learn about yummy recipes using soy products.

## Lesson 8: Flexibility is Fabulous


### PREPARATION

- 🕒 Preview video

### SET UP

- ❑ Distribute towels or yoga mats
- ❑ Place TV or projector where all can see

### SUPPLIES

- ❑ Easel or flip chart
- ❑ Markers
- ❑ Yoga mats and/or towels for each youth
- ❑ Streamers or scarves 
- ❑ A variety of upbeat and relaxing music
- ❑ 1 chair per youth
- ❑ TV with DVD player
- ❑ A yoga workout for beginners: *Basic Yoga Workout for Dummies* DVD

### SUPPLIES

- ❑ Easel or flip chart
- ❑ Markers

### Outcomes (School Age)

The purpose of this lesson is to have the children:

- Understand the importance of stretching for overall fitness and health
- Participate in a yoga activity



### Instructor Essential Information

#### SET UP DETAILS

The instructor should view and practice the *Basic Yoga Workout for Dummies* DVD before beginning the lesson. If you do not have access to the DVD, instructions for 6 postures are included in Activity 1. Distribute towels or yoga mats to each youth. Have the children stand far enough apart to allow for movement.

If you are using a television, place it in a central location where all the children can see the monitor. The children will be using different colored streamers or colored scarves. If you are using scarves, use bright, lightweight fabrics for best results.

### Discussion


DO (School Age) 🕒 5 minutes

**? Ask:** Can you name some benefits of stretching and flexibility exercises? Possible answers: decreases risk for injury, helps body cool-down after vigorous activity, increases balance, increases stability and coordination, makes you feel better.

Review stretching activities such as jump rope stretching or the Feel the Beat warm-up activity from Lesson 1, Activity 2 on page 20. Have the children list other activities that might improve flexibility. Examples: dancing (ballet), martial arts (karate, tai chi, etc.), yoga. Share with the children that yoga is an ancient mind/body exercise that stretches and strengthens the body. It is more than 5,000 years old and originated in India. The exercises, called postures, are done in conjunction with controlled breathing. Yoga is practiced by athletes, dancers, and anyone wishing to increase flexibility.

## Lesson 8: Flexibility is Fabulous

### SUPPLIES

- ❑ Yoga mats and/or towels for each youth
- ❑ Streamers or scarves 
- ❑ A variety of upbeat and relaxing music



### Activity 1 - Yoga Postures

**DO** (School Age) ⌚ 35-45 minutes

Have each child choose a streamer or scarf and find a space where they can move freely without interfering with anyone else or slipping on a yoga mat or towel.

Demonstrate to the children how to move the streamer<sup>3</sup> in a variety of arm movements making different patterns in the air. Some suggestions might include forming figure 8's, and writing letters of the alphabet. Remind them to change hands frequently to stretch both sides of the body.



**WARM-UP** ⌚ 5 minutes

Select music that has a range of tempos to inspire different movements. Play music and have the children make their streamers "dance." Remind them that they need to keep moving the entire time the music is playing. Continue movements for five minutes.

**YOGA POSTURES** ⌚ 30-40 minutes

Practice the basic yoga breathing technique. Have children stand with eyes closed practicing even, slow breathing through the nose. Each posture is held for six breaths (breaths are taken in and exhaled through nose). Have the children sit on towels or yoga mats in front of instructor with legs crossed in front of them. Sit upright with shoulders back and chest up. The instructor will demonstrate each pose first. The children will then perform each of the postures described below, holding each one for six breaths:

- **Cat Pose** - Have youth get on hands and knees with flat or "neutral" spines. Hands are placed under shoulders. While inhaling, chest and head go up. When exhaling, round back like a cat. Repeat six times.
- **Mountain Pose** - Have youth stand with stomach and pelvis tucked in. Feet are under shoulders and are "grounded to the floor." Inhale and reach your arms over head with palms facing each other; exhale and bring arms down to the side. Repeat six times.
- **Standing Forward Bend** - Begin in the mountain pose. Bend knees slightly and bend over from the hips reaching fingertips to floor. Place fingertips on outside of foot keeping knees slightly bent at all times. Once in this position, do the following: inhale, slightly raise your upper body while keeping your spine straight and aligned with

<sup>3</sup> Adapted from *Jump Into Foods and Fitness*, Michigan State University Board of Trustees, 2007

## Lesson 8: Flexibility is Fabulous

head. Exhale, lowering your head and back. Repeat six times.

- **Tree** – Begin in mountain pose. Stand on the right foot with chair on right side of body for support. Bring left foot up to right ankle or knee, resting sole of foot flat against leg. Bring hands up together in front of chest, palms touching. Inhale and push right foot into floor; exhale and press left foot into leg. Repeat six times. Reverse sides.
- **Downward Facing Dog** – Begin in the Standing Forward Bend position with knees bent and finger tips on outside of foot. Walk your hands forward until your body is in an inverted U position. Keep head and spine aligned. Inhale and push floor away; exhale and press heels down. It's fine if your heels don't completely touch the floor. Continue for six breaths.
- **Cobra** - Lie on belly with stomach pulled in, hands under shoulders. Straighten your arms until your chest and stomach are lifted off the ground. Inhale and lift chest; exhale and squeeze shoulder blades together. Repeat six times.



**Note:** Since yoga is a stretching and strengthening exercise, no cool-down is necessary.

### REFLECT (School Age)

? Ask: What do you think about this breathing technique? How is it different from how you breathe during other activities?

? Ask: When do you think this breathing technique might be useful or helpful?

### APPLY (School Age)

Ask youth to practice this breathing technique during the next 24 hours.



## Lesson 8: Flexibility is Fabulous

### SET UP

- ❑ Distribute towels or yoga mats
- ❑ Place TV or projector where all can see

### SUPPLIES

- ❑ Yoga mats and/or towels for each youth
- ❑ A variety of upbeat and relaxing music
- ❑ TV with DVD player
- ❑ A yoga workout for beginners: *Basic Yoga Workout for Dummies* DVD



### Outcomes (Middle School • Teen)



The purpose of this lesson is to have youth:

- Understand the importance of stretching and flexibility to overall fitness and health
- Participate in a yoga activity
- Understand the benefits of controlled breathing and its relationship to stress reduction

### Activity 2 - Yoga Postures

**DO** (Middle School • Teen) ⌚ 35-45 minutes

Have the youth do the Yoga Postures in Activity 1 for School Age youth, on page 54. Or, as an alternative, you may use a beginning Yoga DVD.

**REFLECT** (Middle School • Teen)

? Ask: What do you think about this breathing technique? How is it different from how you breathe during other activities?

? Ask: When do you think this breathing technique might be helpful? Is controlled breathing a good substitute for other physical responses? When?

**APPLY** (Middle School • Teen)

Ask youth to practice this breathing technique during the next 24 hours. Suggest that they try to use it during a stressful situation.


### Technology Challenge

(All Ages)

Check out these ideas about ways to have fun. Go to the website: <http://www.letsmove.gov> and click on Get Active and then on Let's Move Outside. Click on "Where to Go" and "What to do" to find nature and outdoor events, forests, trails and other exciting outdoor activities near you.




## Lesson 9: Eating Rainbows

### PREPARATION




 10 minutes

### SUPPLIES


See Set Up Details.

- Pencils
- Paper
- Food models 
- Dairy Council food model pictures 
- Grocery bag
- Pictures of fruits and vegetables
- Index cards
- Box or bag for index cards
- MyPlate poster 


### HANDOUTS & BOOKS

- Using MyPlate in Your Life – 9-13 Year-Olds*  p. 164
- OR**
- Using MyPlate in Your Life - Teens*  p. 168
- MyPlate Daily Checklist instructions*  p. 172

### SUPPLIES

- Paper
- Pencils
- MyPlate poster 

### HANDOUTS & BOOKS

- Using MyPlate in Your Life – 9-13 Year-Olds*  p. 164
- OR**

### Outcomes (All Ages)

The purpose of this lesson is to have youth:

- Identify a variety of fruits and vegetables
- Describe the reasons why we need to eat more servings of fruits and vegetables each day
- Describe why color is an important component in fruit and vegetable choices
- Prepare healthful snacks



### Instructor Essential Information

Using <http://www.choosemyplate.gov> as a reference, select MyPlate, and then click on both “Fruits,” and “Vegetables” to find out more. Fruits and vegetables are a colorful gateway to good health. Studies have shown that diets rich in fruits and vegetables may reduce the risks of heart disease, certain types of cancer, and other chronic diseases. Fruits and vegetables are good sources of many nutrients including potassium, fiber, Vitamins C & A, and folate.

### SET UP DETAILS

**Decorate Bag** - Before class, decorate a grocery bag with pictures of fruits and vegetables. Then fill the bag with different fruits and vegetables. You can use the food models or Dairy Council food model pictures, or real fruit and vegetables. Try to choose fruits and vegetables that will be in the *Rainbow Fruit Kabobs* and *Crunchy Vegetable Burrito* recipes.



**Index Cards** - On an index card write the recommended amount of fruit and vegetables per day for each of the youth named in the *Food Requirements Vary* activity on page 60.

### Discussion

 (All Ages)  5-10 minutes

Explain that fruits and vegetables are an important part of a healthy diet. They are nutrient dense, may help protect from disease, and are low in calories and fat. Using the MyPlate poster, explain that the USDA MyPlate recommends that half of our plates should consist of fruits and vegetables.

**? Ask:** What fruits and vegetables did you eat yesterday? Write

## Lesson 9: Eating Rainbows

- ❑ *Using MyPlate in Your Life - Teens*  p. 168
- ❑ *MyPlate Daily Checklist instructions*  p.172

### PREPARATION

 5 minutes

### SET UP

See Set Up Details.

### SUPPLIES

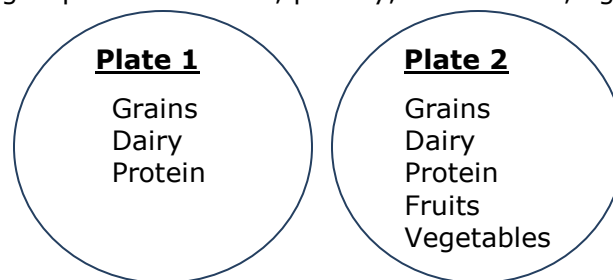
- ❑ 2 white plates
- ❑ Food models or Dairy Council food model pictures from all the food groups 

them down. Have youth refer back to completed handouts from Chapter 1, Lesson 2, *Using MyPlate in Your Life – 9-13 Year-Olds* or *Using MyPlate in Your Life - Teens* or the *MyPlate Daily Checklist* to determine if fruit and vegetable requirements have been met.

### Activity 1 - Kaleidoscope Of Colors

 (All Ages)  30 minutes

Use food models or Dairy Council food model pictures for this activity. Give each youth two plates. On Plate 1, have them place only food from the Grain, Dairy, and Protein food groups. On Plate 2 have them place food from all food groups, making half of their plates fruits and vegetables. Remind youth that the protein group includes meat, poultry, dried beans, eggs and nuts.



? Ask: What differences do you see between the two plates in terms of colors, textures, and tastes?

? Ask: Do you see any other differences?

? Ask: What are some other fruits and vegetables that would add color to the plates?

? Ask: Does half of your plate usually consist of fruits and vegetables? Why is that important for your health? Emphasize that a variety of colorful vegetables and fruits will result in a more nutritious meal.

### PREPARATION

 5 minutes

### SET UP

See Set Up Details.

### SUPPLIES

### Activity 2 - Catch A Rainbow Everyday

 (School Age)  15minutes

Take out the decorated grocery bag filled with fruits and vegetables. Have each youth reach in the decorated bag, touch a food and try to guess what it is, what color it might be, and whether it is a fruit or vegetable. After describing the item, pull it out of the bag to

## Lesson 9: Eating Rainbows

Decorated bag filled with models of fruits and vegetables or real food.

### SUPPLIES

Streamers or scarves in many colors [RT](#)

### PREPARATION

🕒 15 minutes

### SET UP

Make copies of handouts.

### SUPPLIES

Colored pencils, markers, or crayons

### HANDOUTS & BOOKS

- ❑ *Veggie Plant Parts* [A](#) p. 186
- ❑ *You Can Eat a Rainbow* [A](#) p. 187

determine if they were correct.

### Activity 3 - Color Is Important

[DO](#) (School Age) 🕒 15 minutes

Select one of the streamers or scarves used in the warm up activity in Chapter 1, Lesson 8, and have youth name some fruits or vegetables that are the same color as the streamer. Remind them that color is important because different colored fruits and vegetables contain different nutrients.

### Activity 4 - Veggie Plant Parts

[DO](#) (School Age) 🕒 30 minutes

For this activity, use the *Veggie Plant Parts* handout. Read the handout and have children do the Word List Game.

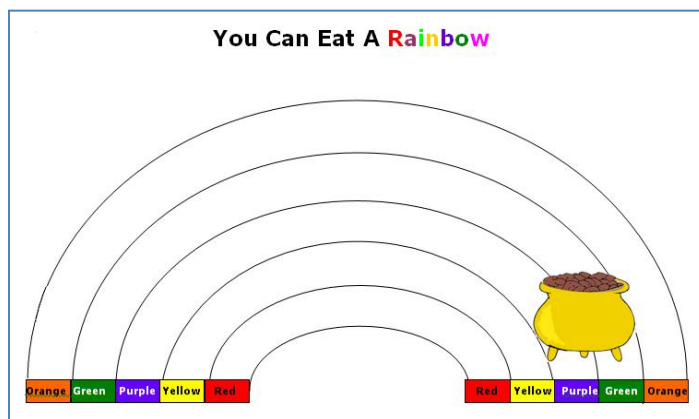
[REFLECT](#) (School Age)

? Ask: How many fruits and veggies should you eat each day?  
Answer: half our plate.

[APPLY](#) (School Age)

Using the *You Can Eat a Rainbow* handout, color the rainbow bands and then have children write the names of fruits and vegetables in the bands that match the band colors.

Do you have a variety of different colored fruits and vegetables?



## Lesson 9: Eating Rainbows

### PREPARATION

🕒 30 minutes

### SUPPLIES

See Set Up Details.

- ❑ Paper plates
- ❑ Index cards with requirements, see Set Up Details
- ❑ Pens or pencils
- ❑ Food models or Dairy Council food model pictures of a variety of fruits and vegetables [RL](#)

### SUPPLIES

See recipes for ingredients and utensils list.

### HANDOUTS & BOOKS

- ❑ *How to Wash Your Hands* [A](#) p. 173
- ❑ Recipe: *Crunchy Vegetable Burrito Banditos* [A](#) p. 189
- ❑ Recipe: *Rainbow Fruit Kabobs* [A](#)

### Activity 5 - Food Requirements Vary

**DO** (Middle School • Teen) 🕒 30 minutes

The recommended amounts of fruits and vegetables per day vary according to your age, sex and activity level. There are many different ways to get the number of servings you need for good health. See [Set Up Details](#) for creating the index cards with recommended foods for the following activity. They indicate the youth's age and sex and how many cups of fruits and vegetables they should eat each day.

Divide youth into five groups. Give each group a paper plate and an index card for one of the youth below. Using the food pictures or models, have them fill the plate with the appropriate amounts of **fruits and vegetables as noted on the index card.**

- **Jill and Jeremy** (age 4-8) – need 1 to 1½ cups of fruit, and 1½ cups of vegetables.
- **Josh** (age 9-13) – needs 1½ cups of fruit, and 2½ cups of vegetables.
- **Jenny** (age 9-13) – needs 1½ cups of fruit, and 2 cups of vegetables.
- **Jason** (age 14-18) – needs 2 cups of fruit, and 3 cups of vegetables.
- **Jennifer** (age 14-18) – needs 1½ cups of fruit, and 2½ cups of vegetables.

Note that the food models are made in serving sizes but the food model pictures may be estimates. Youth may need to estimate whether they have the correct serving sizes.





### Now We're Cookin' – Rainbow Fruit Kabobs, Crunchy Vegetable Burrito Banditos

(All Ages) 🕒 45 minutes

Have youth wash their hands using proper handwashing steps. Separate youth into two groups and have each group prepare one of the two recipes: *Rainbow Fruit Kabobs* or *Crunchy Vegetable Burrito Banditos*. The recipes are in Appendix A.



## Lesson 9: Eating Rainbows

- p. 188
- ❑ *MyPlate Daily Checklist instructions*  p. 172
- ❑ *Using MyPlate in Your Life – 9-13 Year-Olds*  p. 164, **OR**
- ❑ *Using MyPlate in Your Life - Teens*  p. 168
- ❑ *Healthy Habits for Lifelong Cancer Protection*  p. 190

### REFLECT (Middle School • Teen)

Have youth brainstorm ways to incorporate more fruits and vegetables into their daily meals and snacks.

### APPLY (All Ages)

Work with your parents to develop a menu for one day that includes the appropriate number of fruits and vegetables for you. Give youth the *Using MyPlate In Your Life – 9-13 Year-Olds* or *Using MyPlate in Your Life – Teens* or the *MyPlate Daily Checklist* as a reference.

## Technology Challenge

(All Ages)

Design a plate for better health. Visit <http://www.aicr.org> and click on “Reduce Your Cancer Risk” and then on “Diet – What we Eat” to see “*The New American Plate.*” Use it as a sample for designing a meal. Focus on color, taste and texture as you design your own individual plate. Select foods you like to eat.

Review the handout: *Healthy Habits for Lifelong Cancer Protection*, or go to the website to review online.

<http://www.aicr.org/healthykids/infographics/healthy-kids.html>

Visit <http://www.fruitsandveggiesmorematters.org>. Click on “Healthy Kids” and Games that Teach Kids about Fruit & Vegetable Nutrition. Find some new ways to include more fruits and vegetables in your meals and fun facts about fruits and vegetables.

## Lesson 10: Make Half Your Grains Whole

### PREPARATION

🕒 5 minutes

### SET UP

- ❑ Place the MyPlate poster on the wall
- ❑ Make MyPlate handouts for all youth

### SUPPLIES

- ❑ Grain bags [RL](#)
- ❑ Wheat stalk [RL](#)
- ❑ Rope or clothesline
- ❑ Food models or Dairy Council food model pictures of a variety of fruits and vegetables [RL](#)
- ❑ MyPlate poster [RL](#)

### HANDOUTS & BOOKS

- ❑ *What Are Whole Grains?* [A](#) p. 191
  - ❑ *Choosing Whole-Grain Foods* [A](#) p. 193
  - ❑ *Using MyPlate in Your Life – 9-13 Year-Olds* [A](#) p. 164
- OR**
- ❑ *Using MyPlate in Your Life - Teens* [A](#) p. 168
  - ❑ *MyPlate Daily Checklist instructions* [A](#) p. 172
  - ❑ *Making A Model Of The Digestive System* [A](#) p. 194

### Outcomes (All Ages)



The purpose of this lesson is to have youth:

- Discriminate between refined grain products and whole grain products
- Learn the contribution of whole grains to good health
- Select whole grain products by learning to read whole grain descriptors on the nutrition labels
- Use whole grain choices to prepare food
- Use <http://www.choosemyplate.gov/> as a means to identify and select whole grains
- Learn how to identify high-fiber foods and recognize the health benefits of fiber

### Instructor Essential Information

Whole grains are an important source of fiber and other nutrients. Whole grain foods are made from the entire grain seed which is called the kernel. The kernel has three components: bran, germ, and endosperm. In the grain-refining process, most of the bran and some of the germ is removed, resulting in the loss of dietary fiber, vitamins, and minerals.

Most refined grains are enriched, meaning some of the nutrients are put back. Enriched refined grain products are required by law to be fortified with folic acid, as well as thiamin, riboflavin, niacin, and iron. Consuming three or more one ounce-equivalents (one slice of bread) of whole grains per day can reduce the risk of several chronic diseases, and may help with weight maintenance. The USDA MyPlate recommends that at least half of the grains you consume each day should be whole grains.

For more information, see the handouts: *What Are Whole Grains?* and *Choosing Whole Grain Foods* in Appendix A. Or, go to <http://www.wholegrainscouncil.org> and click on "Health Benefits of Whole Grains."






### SET UP DETAILS

Grain bags may be made from grains obtained in health food stores or bulk food markets. The wheat stalk may be obtained from a craft store featuring dried flowers and plants. Make the sample digestive track using the handout: *Making A Model of The Digestive System*. Or, have youth construct the digestive model at the beginning of Activity 3.

## Lesson 10: Make Half Your Grains Whole

### HANDOUTS & BOOKS

- *Using MyPlate in Your Life – 9-13 Year-Olds*  p. 164
- OR**
- *Using MyPlate in Your Life - Teens*  p. 168
- *MyPlate Daily Checklist instructions*  p. 172

### PREPARATION

 5 minutes

### SUPPLIES

An inexpensive wind-up toy

From the food models, select 1 slice of white bread, 1 slice whole wheat bread, ½ bagel, ½ cup spaghetti, 3 cups popcorn, ½ English muffin, 1 cup wheat flakes, ½ cup rice, 1 tortilla, 5 crackers.

### Discussion

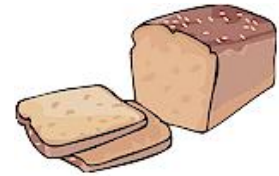
 (All Ages)  20 minutes

Introduce the grains section from MyPlate. Use the handout: *Using MyPlate in Your Life – 9-13 Year-Olds* or *Using MyPlate in Your Life – Teens*, or the *MyPlate Daily Checklist*.

Explore the different foods in the grains group, the health benefits, and suggested servings.

**? Ask:** What are some examples of grains?

Possible answers include: rice, wheat, rye, oats, barley, and corn. Explain that half of our recommended daily serving of grains should be whole grains. Tell youth that later we will discuss how to identify whole grains.



### Activity 1 – Grains Are A Source of Energy

 (All Ages)  30 minutes

**? Ask:** Did anyone have toast, a bagel, or cereal for breakfast today? Who had pizza, rice, spaghetti, or tacos for lunch or dinner yesterday?

**? Ask:** These foods all have something in common. What is it? They are all foods made from grains and provide energy for our bodies.

Wind up a wind-up toy and let it move across the floor until it stops.

**? Ask:** Why did this toy stop running? Answer: it ran out of energy or fuel.

**? Ask:** How are our bodies like cars? Answer: they need fuel. Explain that our fuel is food. Grains, particularly whole grains, are a wonderful source of energy for our brain and muscles.

## Lesson 10: Make Half Your Grains Whole

### PREPARATION

🕒 10 minutes

### SET UP

- ❑ Make a handout for each child

### SUPPLIES

- ❑ Grain bags [RL](#)
- ❑ Wheat stalk [RL](#)
- ❑ Slice of white and whole wheat bread
- ❑ Bags of white and brown rice
- ❑ Bags of wheat, oats, barley, rye, corn
- ❑ Enriched and whole wheat flour
- ❑ Empty white and whole wheat bread bags

### HANDOUTS & BOOKS

*What is a Whole Grain?* [A](#) p. 192



## Activity 2 – The Components Of Wheat

**DO** (All Ages) 🕒 30 minutes

Show the youth the various types of grains: wheat, rice, oats, barley, rye, corn.

Today you will learn about grains from field to plate. For example, the farmer plants wheat kernels and they grow into plants that look like grass. The wheat develops into a stalk that yields about 50 wheat kernels. Kernels are ground into flour. Show the group a slice of enriched white and whole wheat bread. Explain that they are both made from the grain called wheat.

**? Ask:** What is the difference between these two slices of bread? To understand the difference between these two slices of bread we need to look at one wheat kernel and its parts. Show the class the “*What is a Whole Grain?*” handout. Explain that a kernel contains the bran, which gives us fiber, the germ which has lots of vitamins, minerals and protein, and the endosperm which gives us carbohydrates for energy.

When the kernel is milled or ground, the result is whole-wheat flour (whole means all parts of the kernel). Explain that white bread is made from flour from which the wheat bran and germ are removed. This removes the fiber and most of the vitamins and minerals that our bodies need. Manufacturers then put some of these nutrients back and call it enriched. Not all of the nutrients are replaced in this process and definitely not the fiber.

Show youth the bags of white and brown rice, and then the enriched and whole-wheat flour.

**? Ask:** Can you tell which contains whole grains? How? Next, hold up the two slices of bread again.

**? Ask:** Which is the healthiest choice? Tell youth that when they are looking for whole grain products, they must carefully read the labels. Some foods may look like whole grain products but they are not really whole grain. Sometimes a package will be labeled multi-grain or made with whole grains, but very few of the ingredients actually come from whole grains. There also is white bread made from whole grains.

Share with the class two empty bread bags - one from a whole grain loaf and one from a loaf that looks brown, but is not actually a whole grain product. Compare the ingredient labels. A food

## Lesson 10: Make Half Your Grains Whole

### PREPARATION

🕒 2 minutes

### SUPPLIES

Paper and pencils

### PREPARATION

🕒 60 minutes

### SET UP

See Set Up Details for making the digestive system model.

### SUPPLIES

- ❑ 1 set of plastic teeth
- ❑ Empty ½ gallon jug
- ❑ Small intestine and large (ropes)
- ❑ Food models or Dairy Council food model pictures [RI](#)
- ❑ Grain bags [RI](#)
- ❑ Bags of white and brown rice
- ❑ Enriched and whole wheat flour

### HANDOUTS & BOOKS

*Making A Model Of The Digestive System*

[A](#) p. 194

product is considered whole grain if the first ingredient listed on the label is a whole grain such as whole wheat, whole rye, whole oats, etc.

### Activity 3 - Using The Internet To Find Out About Wheat

[DO](#) (All Ages) 🕒 30 minutes

This is an internet alternative to Activity 2, The Components Of Wheat and covers the same material.

Go to: <http://www.choosemyplate.gov> and click on MYPLATE and then click on "Grains" to explore different foods in the group, the health benefits and suggested servings.

Ask youth to identify the two different sub-groups of grains. Go to the whole grains list. Make a list of five whole grain foods. Write a menu for your family for one day incorporating at least three whole grains that your family might enjoy.

### Activity 4 – Fiber And The Digestive System

[DO](#) (All Ages) 🕒 25 minutes

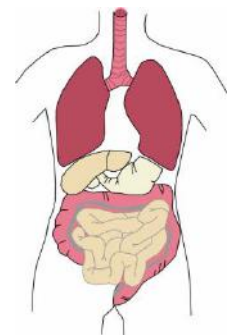
**Instructor Note:** Go to the KidsHealth® website shown below and use the information there to explain the parts of the digestive system. <https://kidshealth.org/en/kids/digestive-system.html>

You can make the digestive system model in advance or have youth construct the model as part of the activity. See both the Instructor Essential Information and *Making A Model Of The Digestive System* for details.

Ask for two volunteers. Give each person one end of the handmade digestive tract and have them move apart.

Have youth explain how food goes through the digestive system based on their website research; i.e., when we chew and swallow our food it goes down the esophagus and into the stomach. Then it travels through the 20 feet of small intestine, and 5 feet of large intestine. That's a long way for the food to go.

There is something in whole grains that helps move the food through the digestive tract. It's called fiber.



## Lesson 10: Make Half Your Grains Whole




? Ask: Where is fiber found in the kernel? Answer: in the bran.

Show youth what a one-ounce portion of a whole grain food would look like. Examples:

<ul style="list-style-type: none"> <li>• 1 slice of whole wheat bread</li> <li>• 5 whole grain crackers</li> <li>• ½ whole wheat bagel</li> </ul>	<ul style="list-style-type: none"> <li>• ½ cup whole wheat spaghetti</li> <li>• 1 corn tortilla</li> <li>• ½ cup brown rice</li> </ul>	<ul style="list-style-type: none"> <li>• 3 cups popcorn</li> <li>• ½ whole wheat English muffin</li> <li>• 1 cup wheat flakes</li> </ul>
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Show the group the whole grains you displayed in Activity 2 - The Components Of Wheat. Ask youth to identify foods made from the whole grains shown in the display. Explain that at least half of the grain products we eat each day should be whole grains and it's even better if all of the grains we eat are whole grains.

### HANDOUTS & BOOKS

*Bread in a Bag*  p. 196


### Now We're Cookin' – Bread In A Bag


(All Ages) ⌚ 30 minutes


Have youth wash their hands using proper handwashing steps. Have youth prepare *Bread in a Bag*. The recipe is found in Appendix A.



### HANDOUTS & BOOKS

*How to Wash Your Hands*  p. 173

*How Many Grains*  p. 195

*Using MyPlate in Your Life – 9-13 Year-Olds*  p. 164  
**OR**

*Using MyPlate in Your Life - Teens*  p. 168

*MyPlate Daily Checklist instructions*  p. 172

### Technology Challenge

(All Ages)

Use the resources on <http://www.choosemyplate.gov> to determine how much grain you need in a week. Record how many whole grains you have eaten in the last week. Make a meal plan to help your family eat whole grains using MyPlate. Refer to the handout *How Many Grains*, and to Chapter 1, Lesson 2, Activity 1, *Using MyPlate* or the *MyPlate Daily Checklist*.

# Chapter 2 Fueling the Body

## Introduction

Chapter two provides an overview of the importance of the essential nutrients for the body. The lessons emphasize the need for whole grains for good health. Youth learn the importance of breakfast and are given several opportunities to prepare and sample healthy breakfasts. Youth learn that snacking can be a good thing when the snack choice is a healthy one.

Exercise and proper nutrition can help maintain a healthy body. Youth learn how many calories are burned during exercise and how to balance caloric intake with energy output. They also learn how many calories are in fat, protein and carbohydrates.

This chapter introduces youth to different kinds of vegetarian diets. In the Now We're Cookin' activity, youth prepare several vegetarian dishes and discuss some of the issues related to vegetarian diets. Youth have an opportunity to learn about vitamins and steroids. They discuss the pressures that may lead some athletes to abuse these drugs to enhance their performance. Youth sample sports drinks, energy drinks and food bars and discuss their usefulness as they evaluate the value and cost of these quick "energy" foods.

## Lesson Summary

- |  |           |
|--|-----------|
| 1. Calories In and Calories Out                | Nutrition |
| 2. Nutrient Knowledge                          | Nutrition |
| 3. Break It Up - Breakfast First!              | Nutrition |
| 4. Snack Attack                                | Nutrition |
| 5. Vegetarianism In A Nutshell                 | Nutrition |
| 6. Energy Drinks And Foods                     | Nutrition |
| 7. Body Image - Healthy Comes in Lots of Sizes | Fitness   |

## Lesson 1: Calories In - Calories Out

### When Your Balancing Act Is Out of Whack

#### PREPARATION

 30 minutes


#### SET UP

- See Set Up Details
- Place food models or real food samples in the discussion area
- Have youth sit in semi-circle
- Set out snacks
- Create four aerobic activity stations
- Review the Activity: *How Many Calories Are In A Snack?*

#### SUPPLIES

- See Set Up Details
- Dairy Council food model pictures or real food samples
- Snacks with food labels
- Aerobic station equipment: basketballs, jump ropes, aerobic dance DVD or YouTube video, hacky sacks
- TV with DVD player
- Stopwatches
- Masking tape to mark off activity stations

#### HANDOUTS & BOOKS

*Calories Burned During One Hour Of Exercise*  p. 197

#### Outcomes (School Age)



The purpose of this lesson is to have youth:

- Understand that food supplies the energy that we need for daily activities
- Look at differences between high-and low-calorie foods
- Understand how physical activity, type of food, and quantity of food are all related to weight gain/loss
- Discover that individual calorie needs are different for everyone
- Read a food label and discuss the contents of a snack food
- Participate in a "calorie-burning" activity

#### Instructor Essential Information

The duration and intensity of the exercises in this lesson may need to be adjusted to accommodate different fitness levels of the youth. For example, continuous jumping is very difficult, particularly for children who are not in good shape. Explain to them that they may not be able to jump rope continuously for 20 minutes. This may be something they have to work up to, and that they should take short rests when they are tired. You may wish to have younger children shorten the time at each station and have them rotate through the stations twice.

The instructor should always provide water breaks during these activities. The breaks should be more frequent in warm weather.

#### SET UP DETAILS

Instructors will need the following for this lesson:

- Food models - This lesson requires food models or real food samples such as potato chip bags, fast food wrappers, yogurt and milk containers, soda bottles, etc.
- Snacks - Lay out snacks on a table or in a basket near the discussion area. Be sure to have one small bag or snack for each child. The snacks need to have clearly marked food labels. Examples are: potato chips, pretzels, small candy bars, granola bars, etc.
- Aerobic Stations - Set up four stations around the room that will allow youth to perform aerobic exercise. Obtain any equipment needed for these exercises. Examples: jump ropes, basketballs/basketball hoop, hacky sacks, or

## Lesson 1: Calories In - Calories Out

### SET UP

- ❑ Place food models or real food samples in the discussion area
- ❑ Have youth sit in semi-circle
- ❑ Review the Activity: *How Many Calories Are In A Snack?*

### SUPPLIES

Dairy Council food model pictures or real food samples



dance DVD produced for youth, such as hip-hop, Zumba or salsa or YouTube dance video.

- Calories Burned During Exercise – Make one copy per youth of the handout: *Calories Burned During One Hour Of Exercise*.

### Discussion

**DO** (School Age) ⌚ 15 minutes

**?** Ask: What is a calorie? Explain that a calorie is a unit of measurement that scientists use to describe how much energy is contained in foods. Different kinds of foods contain different amounts of energy (calories).

Hold up a variety of food models and have students guess if foods are high or low in calories. Ask the children to give examples of some high-calorie foods. Examples: ice cream, whole milk, cheeseburger with bacon, potato chips, French fries, cake.

Discuss foods lower in calories and use food models to illustrate examples such as: low-fat yogurt, low-fat or fat-free milk, small hamburger, pretzels, fruit, popcorn, and vegetables.

Explain to the children that a well-balanced diet must include food from all food groups and should be high in fruits, vegetables, whole grains, low-fat dairy, and lean sources of protein such as beans, poultry and fish. These kinds of foods contain the nutrients necessary for growing healthy bodies and are lower in calories than some other food choices.

Emphasize that there are calories in all the foods we eat and these calories provide the energy we need to work, play and think. Make it clear to the children that they should not be too concerned about counting calories in foods. It is more important to remember that all children grow at different rates and require different amounts of calories.

We only need to worry about calories when our balancing act gets out of whack. By that we mean eating too many high-calorie foods such as sweets and fast food instead of healthy food, and not getting enough exercise to burn off the excess calories we eat.

## Lesson 1: Calories In - Calories Out



? Ask: Why do some foods have more calories than others? For example, why does a steak contain more calories than a piece of grilled skinless chicken? Explain that steak is higher in calories than baked or grilled skinless chicken, or fish, because it has more fat.

Fat contains a lot of calories. Foods with less fat contain fewer calories. Emphasize that some fat is necessary for bodily functions, particularly during growth periods, but most Americans get too much fat in their diets. This results in too many calories, which leads to weight gain.

? Ask: Do you know which other kinds of foods are high in calories? Explain that foods high in sugar such as soft drinks, sweets, etc. also provide an excess number of calories in most American diets.

? Ask: What do you think it means when we say your calorie balancing act is "out of whack?" Explain that healthy bodies need a balance between what they eat (calories in) and how much they exercise (calories out). If there is an excess of calories taken in, those calories will be stored as body fat.

Finally, stress to the children that counting calories is never advisable for growing children and teenagers. However, they need to be aware that good health is a balancing act; the calories that go into their bodies have to be in balance with their physical activity levels.

### SUPPLIES

- ❑ Wrappers from the snacks they ate earlier
- ❑ See Set Up Details for creating Aerobic Stations
- ❑ Aerobic station equipment: basketballs, jump ropes, aerobic dance DVD or YouTube video, hacky sacks
- ❑ TV with DVD player
- ❑ Stopwatches

### Activity 1 - How Many Calories In A Snack?

**DO** (School Age) ⌚ 20 - 25 minutes

Divide youth into four groups by birthdays:

- Group 1 January - March birthdays
- Group 2 April - June birthdays
- Group 3 July - September birthdays
- Group 4 October - December birthdays


Have each child choose a snack that they like from the snack selection. Encourage them to eat the snack if they choose. Tell them to save the wrappers for later.

? Ask: How many calories were in the snacks that you just ate? Have them check the food labels.

Send each group to an aerobic activity station. Make sure that each member is an active participant in the activity. Tell youth that they

## Lesson 1: Calories In - Calories Out

### HANDOUTS & BOOKS

*Calories Burned During One Hour Of Exercise*  p. 197



are performing an experiment to see how long and how hard they have to exercise to "work off" their snack. Have each group do their activity for approximately 20 minutes. Circulate among the groups to ensure that everyone is active.

- **Basketball Activity Station** - Make sure that each youth has a basketball. The goal of this activity is to keep youth moving. Some youth will have more advanced skills than others so stress to youth that the point of this activity is simply to keep moving.
  - Basketball Drill 1 Using a predetermined line, have all youth begin walking while dribbling their basketballs to the line. Once at the line, have them return to the beginning. Repeat, having youth run to the line while dribbling and return to the beginning.
  - Basketball Drill 2 Using the same turnaround line as in Drill 1, have youth dribble half way to the line and then chest pass the ball to one of the other group members. Everyone passes their ball to another member. Youth continue dribbling to the turnaround line and back to the beginning.
  - Basketball Drill 3 Everyone in the group plays a basketball game. Have the group divide into 2 smaller groups. Each of the smaller groups gets one basketball. Make sure that youth with more advanced skills are evenly distributed between the groups. The object of the game is to have all group members touch the ball, dribble twice, and pass the ball to a teammate before a shot is taken. No points are scored until everyone has touched and dribbled the ball before shooting.
- **Jump Rope Activity Station** - Have youth position themselves around the room to allow for plenty of space for individual jump-roping activities. The point of this activity is to keep youth continuously active for at least 20 minutes. Encourage them to jump however they can as long as they are moving.
  - Jump Rope Drill 1 Have youth begin jumping rope and challenge them to remain jumping for one minute without stopping. After they have completed one minute, have them take a short one-minute rest.
  - Jump Rope Drill 2 Next, ask them to try to jump rope for two minutes without stopping. After two minutes of continuous jumping, have them take a short rest of one to two minutes.
  - Jump Rope Drill 3 After youth have jumped individually for as long as they can, have them lay a long rope across the



## Lesson 1: Calories In - Calories Out



floor and ask them to jump from one side of the rope to the other. They will be jumping back and forth while moving forward until they have reached the end of the rope.

- **Jump Rope Drill 4** Arrange two long ropes parallel to each other about two feet apart and have youth jump between and back and forth across the ropes from one end to the other.
- **Jump Rope Drill 5** Continue to arrange the jump ropes in different patterns on the floor and have the youth jump back and forth between the ropes.

- **Dance Activity** – Set up a television with a DVD player and a dance DVD or a projector with a YouTube exercise video. Make sure youth have plenty of space for dancing. Have youth follow the instructions given by the instructor. If some youth find the dance moves too difficult to follow, encourage youth to move in any way they like (jump, skip, hop in place, move their arms).
- **Hacky Sack Activity** - Have youth form a small circle. Ask for a volunteer to begin moving the hacky sack around the circle. The object of this activity is to move the hacky sack around the group using a pre-designated body part without allowing the hacky sack to touch the floor. After everyone has touched the hacky sack using that body part, have them start with a new body part. For example, start moving the hacky sack using the knee. Have the first volunteer move the hacky sack to another youth using his/her knee. After everyone has “thrown” the hacky sack with their knee, switch to head, shoulder, elbow, etc.

When finished with all activities, have youth return to the middle of the room for a discussion. Have them bring the wrappers from the food they ate earlier. Give the group several copies of the handout *Calories Burned During One Hour Of Exercise*. Tell them to find the table that corresponds to their own weight and spend a few minutes looking at the calories burned for different activities.

### REFLECT (School Age)

? Ask: Which group burned the most calories? Why? Which group burned the fewest calories? Why? Do you think you burned off the snack you ate earlier?

? Ask: Which activities burn the most calories in an hour? Which ones burn the least? Are you surprised by any of these numbers?

? Ask: Who can estimate how long it would take to burn off the 760 calories from a Burger King Cheese Whopper®?

Emphasize that fat and calories are necessary for growing bodies.

## Lesson 1: Calories In - Calories Out

However, too much of either can cause excess weight gain and increases your risk for chronic diseases. The amount of calories needed in a day is different for everyone and depends upon age, activity level, and gender.

### APPLY (School Age)

Ask the children to keep a log of the different kinds of exercise they get during a one-week period. Emphasize that they should spend about one hour each day doing physical things they enjoy such as riding their bikes, playing soccer or playing outside with their friends.

### Outcomes (Middle School • Teen)



The purpose of this lesson is to have youth:

- Describe how a calorie is used by the body
- Describe the differences between high-and low-calorie foods
- Understand how physical activity, type of food, and quantity of food are all related to weight gain/loss
- Discover that individual calorie needs are different for everyone
- Look at how budgeting food and activity can help maintain a healthy weight
- Participate in a calorie-burning activity

## Instructor Essential Information

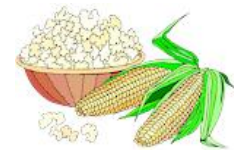
### SET UP DETAILS

See Set Up Details for this lesson for School Age on page 68.

## Discussion

DO (Middle School • Teen) ⌚ 10-20 minutes

? Ask: What is a calorie? Explain that a calorie is a unit of measurement that scientists use to describe how much energy is contained in foods. Different kinds of foods contain different amounts of energy (calories).



Hold up a variety of food models and have students guess if foods are high or low in calories. Ask youth to give examples of some high-calorie foods. Examples: ice cream, whole milk, a double cheeseburger with bacon, potato chips, French fries, cake. Discuss foods lower in calories and use food models to illustrate examples. Examples: low-fat yogurt, low-fat or fat-free milk, a single hamburger, pretzels, fruit, popcorn, vegetables.

### SUPPLIES

Food models or real food samples

## Lesson 1: Calories In - Calories Out

Explain to youth that a well-balanced diet should include food from all food groups and should be high in fruits, vegetables, whole grains, low-fat dairy, and lean sources of protein such as beans, poultry and fish. These foods contain lots of nutrients necessary for normal growth and are lower in calories than some other food choices.

? Ask: Why do some foods have more calories than others? For example, why does a rib-eye steak contain more calories than a piece of grilled skinless chicken? Explain to youth that the reason some foods, like steaks, are high in calories is because they are high in fat. Fat contains more calories per gram than either carbohydrates or proteins. In other words, if you were to eat one gram of pure fat, you would get more than twice as many calories as you would from one gram of pure protein or pure carbohydrate. Explain that whenever you are eating a high-fat food, such as steak, a smaller portion is the wiser, healthier choice.

**CALORIES IN ONE GRAM OF:**

Fat = 9 calories

Carbohydrate = 4 calories

Protein = 4 calories

Emphasize that some fat is necessary for bodily functions, particularly during growth periods, but most Americans get too much fat in their diets. This results in too many calories and leads to weight gain.

? Ask: Do you know which other kinds of foods are high in calories? Explain that foods high in sugar, such as soft drinks, sweets, etc., also provide an excessive number of calories in many American diets.

? Ask: What do we mean by "calories in should equal calories out?" Tell youth that there needs to be a balance between what they eat (calories in) and how much they exercise (calories out). When there is an excess of calories taken in, those calories will be stored as body fat.

Stress to youth that counting calories is never advisable for growing children or teenagers, and that eating for good health is always a balancing act.


? Ask: How can you "budget" your calories and still enjoy your favorite foods? Examples:

- When you go out for pizza with friends, you may want to skip that second or third piece of pepperoni pizza, and have a fresh salad instead.



## Lesson 1: Calories In - Calories Out

### HANDOUTS & BOOKS

*Calories Burned During One Hour Of Exercise*  p. 197

- If you are going out to your favorite steak house for dinner, go light at lunch and at dinner order a small steak with healthy sides.

Have the group brainstorm other situations where they might “budget” their food choices.

### Activity 1 - How Many Calories Are In A Snack?

**DO** (Middle School • Teen) ⌚ 20 - 25 minutes

See Activity 1 in this lesson for School Age children on page 70.

**REFLECT** (Middle School • Teen)

? Ask: Which group burned the most calories? Why? Which group burned the fewest calories? Why? Have youth calculate the approximate number of calories they burned using the *Calories Burned During One Hour Of Exercise* handout. Did they burn off the snack they ate earlier? If not, how long would it take them to burn those calories?

Calculate how long it would take you to burn off the 760 calories from a Burger King Cheese Whopper® if you were doing the activity you just did with your group.

**Instructor’s Note:** Emphasize that fat and calories are necessary for growing bodies, but too much of either can cause excess weight gain and increase risk for chronic diseases. Calorie amounts are different for everyone and depend upon age, activity level and gender.

**APPLY** (Middle School • Teen)

Ask youth to estimate the number of calories they are getting every day from snack foods. Have them estimate how much activity is necessary per day to burn off these extra calories through exercise.

Ask youth to keep track of their activities and calories for one week to determine if their “calories in” are equal to, less than, or more than, their “calories out.”



## Lesson 1: Calories In - Calories Out

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### **Technology Challenge**

(Middle School • Teen)

Go to <http://www.choosemyplate.gov> and click on "Online Tools," then click on "SuperTracker." Click on "SuperTracker" again in the text. Proceed to "Physical Activity Tracker" learn how much physical activity you need.

## Lesson 2: Nutrient Knowledge



### Outcomes (All Ages)

The purpose of this lesson is to have youth:

- Discover the importance of nutrients to a healthy body
- Understand that essential nutrients come from the foods we eat
- Discover that good health requires nutrient dense foods
- Prepare a healthy snack

### Instructor Essential Information

The foods you eat supply the nutrients your body needs to build and repair itself and to stay healthy. There are over 40 nutrients. Six of them are called the essential nutrients. These six essential nutrients are carbohydrates, fats, protein, vitamins, minerals, and water. Because no one food contains all the essential nutrients, we say there are no perfect foods. However, many foods provide more than one essential nutrient. That is why, for overall health, we need to eat a variety of foods.

MyPlate is designed to help consumers find solutions to healthy eating. Use MyPlate to build your healthy eating style and maintain it for a lifetime. Choose foods and beverages from each MyPlate food group to ensure you are getting all of the nutrients your body needs. Start with small changes to make healthier choices you enjoy.

### Discussion

**DO** (All Ages) ⌚ 10 minutes

? Ask: Why do we need food? Answer: food supplies the energy needed for growth and repair. It keeps your body going!

? Ask: What does it mean when we say, "You are what you eat and drink?" Answer: Healthy foods make a healthy body. What you eat literally becomes part of you.

? Ask: Does anyone know what percentage of your body is made of water? Answer: Your body is 55 - 70% water. The rest of your body is made up of carbohydrates, proteins, fat, and minerals. These also are the nutrients found in the food you eat.



## Lesson 1: Calories In - Calories Out

### SET UP

- ❑ Prepare food cards
- ❑ Prepare grocery bags or poster

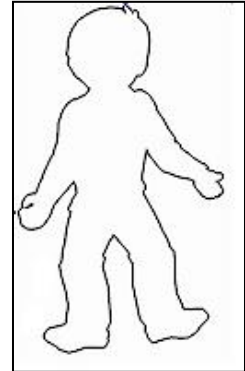
### SUPPLIES

- ❑ Piece of paper large enough to draw an outline of a child
- ❑ Marker
- ❑ Food models, pictures of foods from magazines **OR** Dairy Council food model pictures **RL** **OR** index cards for youth food pictures drawings
- ❑ One large MyPlate poster **RL** **OR** 5 grocery bags labeled with each food group: grains, protein, fruits, vegetables and dairy

### Activity 1 – What Do You Eat?

**DO** (School Age) ⌚ 45 minutes

Place a large piece of paper on the floor and draw an outline of a child on it. Use magazine pictures, food models or have youth draw pictures of foods on small pieces of paper or index cards to fill the outline.



Place the MyPlate poster or the five labeled grocery bags at the end of the room. Divide youth into teams and have them run a relay race. Each youth will select a food picture from the outline of the child and run to place it on the appropriate food group on the poster or in the correct bag.

When the relay is finished, determine whether all the cards have been placed in the right baskets. For combination foods, such as pizza or macaroni and cheese, help youth determine where best that food fits. For example, macaroni and cheese would best fit in the grains group.

**REFLECT** (School Age)

? Ask: What did you eat for breakfast? Did your breakfast come from more than one food group?

**APPLY** (School Age)

At the dinner table tonight, discuss whether all food groups are represented in your meal. If not, what are you missing?

## Lesson 1: Calories In - Calories Out

### PREPARATION

🕒 10 minutes

### SET UP

Draw *The Big 6* on flipchart or use copies of *The Big 6* handout.



### HANDOUTS & BOOKS

*The Big 6*  p. 207

### SUPPLIES

- Flip chart
- Marker
- Muffin food label or other food labels

### HANDOUTS & BOOKS

- The Big 6*  p. 207
- Sample Label for Muffins*  p. 206

### Discussion

 (All Ages) 🕒 15 minutes

Discuss the six essential nutrients. Refer to *The Big 6* handout.

? Ask: What are the six essential nutrients? Answer: carbohydrates, fat, protein, vitamins, minerals, and water.

- **Carbohydrates** – Carbohydrates are the body’s main source of energy. On food labels, the total carbohydrates are listed. This includes dietary fiber, sugars, and other carbohydrates.
- **Fat** – The second source of energy for the body is fat. Fat helps transport nutrients and is a part of body cells.
- **Protein** – Proteins help build, repair, and maintain all body tissues.
- **Vitamins & Minerals** – Vitamins boost the immune system and support normal cell growth and development. They also help cells and organs do their jobs.
- **Water** – Water regulates your body temperature, carries nutrients to the cells, and carries waste out of your body.



? Ask: Why are the six essential nutrients important to good health? Answer: Each nutrient performs a different function to make our body run efficiently. Since no one food contains all the essential nutrients, we need to eat a variety of foods from different food groups to be sure we get all the nutrients we need.

### Activity 2 – Sample Muffin Label

 (School Age • Middle School) 🕒 20-30 minutes

For this activity, youth will need these two handouts: *The Big 6*, and *Sample Muffin Label*. Take a look at the *Sample Muffin Label* handout and identify which of the six nutrients are found in this food. Use *The Big 6* handout and record the amounts of each essential nutrient listed on the Muffin label. For School Age children, you might want to enlarge it and use it as a poster for the group discussion.

When checking the water content, review the ingredients list and simply write “yes” or “no” in that section of *The Big 6*. Use this

## Lesson 1: Calories In - Calories Out

activity to illustrate that foods contain different nutrients.

<b>Nutrition Facts</b>			
12 servings per container			
<b>Serving size</b>		<b>1/2 muffin (114g)</b>	
<b>Calories</b>	<b>Per 1/2 muffin</b>	<b>Per 1 muffin</b>	
	<b>380</b>	<b>760</b>	
	<b>% DV*</b>	<b>% DV*</b>	
<b>Total Fat</b>	16g <b>21%</b>	32g <b>41%</b>	
Saturated Fat	3g <b>15%</b>	6g <b>30%</b>	
Trans Fat	0g	0g	
<b>Cholesterol</b>	50mg <b>17%</b>	100mg <b>33%</b>	
<b>Sodium</b>	480mg <b>21%</b>	960mg <b>42%</b>	
<b>Total Carb.</b>	56g <b>20%</b>	112g <b>41%</b>	
Dietary Fiber	2g <b>7%</b>	4g <b>14%</b>	
Total Sugars	32g	64g	
Incl. Added Sugars	30g <b>60%</b>	60g <b>120%</b>	
<b>Protein</b>	3g	6g	
Vitamin D	0.1mcg 0%	0.2mcg 2%	
Calcium	40mg 4%	80mg 6%	
Iron	2mg 10%	4mg 20%	
Potassium	190mg 4%	380mg 8%	

\* The % Daily Value (DV) tells you how much a nutrient in a serving of food contributes to a daily diet. 2,000 calories a day is used for general nutrition advice.

## Lesson 1: Calories In - Calories Out

### SET UP

- ❑ Put all the Dairy Council food model or food pictures in the front of the room. Do not use the combination foods such as pizza or a hamburger /bun.
- ❑ Place flip chart and marker some distance from the food models so youth can run from one to the other.

### SUPPLIES

- ❑ Blackboard or flip chart
- ❑ Marker
- ❑ Dairy Council food model pictures <sup>RL</sup>: milk, orange juice, bread, poultry, beans, nuts, eggs, and pasta or pictures of these foods

### Activity 3 – Nutrient Scramble

**DO** (School Age) ⌚ 20 minutes

On the blackboard or flip chart, list the following essential nutrients: fats, carbohydrates, protein, calcium, vitamin C.

Divide the group into two relay teams. Have each youth run to the food model or magazine pictures, select one, and run to the flip chart or blackboard to write down the name of that food under a nutrient. The youth runs back to the team with their picture, and the next youth takes his/her turn.

After all the food pictures have been chosen, the teams add up their scores (1 food model = 1 point). Have the group look at the placement of each food item on the flip chart. If it is placed accurately (e.g., chicken is under protein), the team keeps the point for that food item. If the food is listed incorrectly (e.g., broccoli is under fats) then the team with that food model loses one point. When the review is finished, the team with the most points wins. Check the back of the Dairy Council food model pictures for nutrient information.

### Technology Challenge

(School Age)

Download the ChooseMyPlate.gov coloring page by going to <https://choosemyplate-prod.azureedge.net/sites/default/files/printablematerials/ColoringSheetBlank.pdf> Once you have downloaded the page, then draw pictures of actual foods that fit in each section of the MyPlate, such as beans in the protein section, spinach in the vegetable section and yogurt in the dairy section. Share your MyPlate with others to see all of the different nutrient rich foods.

Visit <https://www.choosemyplate.gov/kids-become-myplate-champion> to become a MyPlate Champion!

Pledging to be a MyPlate Champion is a promise to eat healthy and be active every day. Learning how to make healthy choices at home and at school is an important part of taking care of you. The first step is to know which choices are best for you. Use ideas from the MyPlate website to get started.



## Lesson 1: Calories In - Calories Out

### Technology Challenge

(Middle School • Teen)

Divide the group into five small work groups. Visit the site: <http://www.choosemyplate.gov> Have each group click on a food group and follow the directions below.



- **Group 1** – Click on Grains and then on View Food Gallery to learn about the nutrients and healthy benefits and tips to help you eat more whole grains.
- **Group 2** – Click on Vegetables and then on View Food Gallery to learn about the nutrients and health benefits, the variety and why beans and peas are unique.
- **Group 3** – Click on Fruit and then on View Food Gallery to learn about the nutrients and health benefits, the variety, and tips to eat more.
- **Group 4** – Click on Protein and then on View Food Gallery to find out more about nutrients and health benefits, vegetarian choices and tips for making wise choices. Note the examples of animal and plant protein sources.
- **Group 5** – Click on Dairy and then on View Food Gallery to find out more about nutrients and health benefits, non-dairy sources of calcium and tips to make wise choices.

### Technology Challenge

(School Age)



Have the youth log onto this web site: <http://www.choosemyplate.gov/games> Select Blast Off, Dining Decisions or Smash Your Food to learn more about healthy food choices.

## Lesson 1: Calories In - Calories Out

### SUPPLIES

See recipe for ingredients and utensils list.

### HANDOUTS & BOOKS

- ❑ *How to Wash Your Hands*  p. 173
- ❑ Recipe: *MyPlate Salsa*  p. 205

### Now We're Cookin' - MyPlate Salsa

(All Ages) ⌚ 45 minutes

Have youth wash their hands using proper handwashing steps. Prepare *MyPlate Salsa* to illustrate that you need variety to get your "Big 6." Divide the youth into cooking groups. Then divide the recipe into preparation tasks, such as vegetable chopping, opening and draining the can. The recipe is found in Appendix A.



As the youth eat the salsa, have them name the ingredients in the salsa and identify from which food group they come. Don't forget the chips! Then, identify the nutrients in the different ingredients by referencing the food labels and referring back to the MyPlate website.

### Technology Challenge

(Teen)

Visit <https://www.choosemyplate.gov/teens> to find out more about how tweens and teens can build healthy food and physical activity habits.

## Lesson 3: Break It Up – Breakfast First!



### PREPARATION

🕒 20 minutes

### SET UP

See Set Up Details

### SUPPLIES

- ❑ Blackboard or flip chart
- ❑ Markers

### Outcomes (All Ages)

The purpose of this lesson is to have youth:

- Discover the importance of starting each day with breakfast
- Demonstrate the ability to select a healthy breakfast
- Prepare quick and easy breakfasts

### Instructor Essential Information

Eating breakfast may contribute to good health, improved test scores, and weight management.

Youth who eat breakfast do better in school. They tend to have better language and problem solving skills. Eating breakfast may also help with memory and creativity. Youth who eat breakfast have better math and reading scores, classroom behavior, and attendance. Breakfast restores the blood sugar levels that drop overnight that are essential for good physical and cognitive performance.



### SET UP DETAILS

On the flip chart or poster board, write down the “Benefits of Breakfast” list (shown below). On another page, write the “Reasons Kids Skip Breakfast” list. Keep both lists hidden until the youth have finished the brainstorming process in Activity 1.

Benefits of Breakfast	Reasons Kids Skip Breakfast
<ul style="list-style-type: none"> <li>• Score higher on tests</li> <li>• Have more energy for daily activities</li> <li>• Work faster</li> <li>• More cooperative</li> <li>• Less likely to be tardy to school</li> <li>• Less likely to go to the nurse’s office</li> <li>• Have better concentration</li> <li>• More creative</li> <li>• Less likely to be absent</li> <li>• Make fewer errors</li> <li>• Helps prevent colds and flu</li> <li>• Helps with weight management</li> </ul>	<ul style="list-style-type: none"> <li>• Not hungry in the morning</li> <li>• Don’t have time</li> <li>• Want to lose weight</li> <li>• Don’t like breakfast</li> <li>• Would rather watch TV</li> <li>• Don’t feel like making something</li> <li>• Overslept</li> </ul>

## Lesson 3: Break It Up – Breakfast First!

### SUPPLIES

Cell phone charger



### Discussion

**DO** (All Ages) ⌚ 10 minutes

? Ask: What boosts your physical and mental performance? What keeps your weight in check and improves your diet? What starts your day off right? The answer to these questions is breakfast! Explain that the term breakfast means breaking the fast.

Tell youth: Does anyone know what this is? (Hold up a cell phone charger.) It's a charger for a cell phone. This charger transfers the energy from the electrical outlet to your cell phone battery to recharge it when it runs low.

? Ask: Can you think of another kind of battery that needs charging? Answer: your body. In the morning, the thing that gives you a charge is breakfast.

Explain that breakfast delivers the energy your body needs to get started on your daily routine just like this cell phone charger delivers energy to get the phone battery going again.

? Ask: Has anyone ever heard someone say: Breakfast is the most important meal of the day? Why is that? When you wake up, it has been between 8 and 12 hours since you ate dinner or had a bedtime snack. Imagine waiting that long to eat during the day! Even though you might not think you're doing anything while you sleep, your body is using energy and needs a boost from the nutrients in breakfast foods to think, be alert, and stay active.



? Ask: Which nutrient gives your body energy by replenishing blood sugar levels? Answer: carbohydrates. Our bodies and brains need carbohydrates to function effectively.

? Ask: Can you name other nutrients your breakfast should provide? Answers: protein, fat, vitamins, and minerals.

## Lesson 3: Break It Up – Breakfast First!

### PREPARATION

🕒 20 minutes

### SET UP

- ❑ See Set Up Details
- ❑ Title on flip chart:  
Benefits of Breakfast
- ❑ Title on flip chart:  
Reason Kids Skip Breakfast

### SUPPLIES

- ❑ Blackboard or flip chart
- ❑ Marker
- ❑ Reason Kids Skip Breakfast list p. 84


### PREPARATION

🕒 5 minutes

### SET UP

Make copies of the handout.

### SUPPLIES

- ❑ Flip chart paper
- ❑ Markers
- ❑ Tape
- ❑ MyPlate poster 

### HANDOUTS & BOOKS

*Building Better Breakfasts*  p. 208

### Activity 1 – Brainstorming Breakfast

**DO** (All Ages) 🕒 15 minutes

? Ask: Can anyone describe the benefits of eating breakfast? Record youth responses on the flip chart or blackboard. Compare youth responses to the Benefits of Breakfast list.

? Ask: Do you know how many kids skip breakfast in the morning? Answer: almost 1/2. In middle and high school, the percentage is even higher. As students get older, they skip breakfast more often.

? Ask: What are some of the reasons you skip breakfast? Use a flip chart to list the youth's ideas. Compare the youth responses to the Reason Kids Skip Breakfast list.



### Activity 2 – Plan A Breakfast

**DO** (School Age) 🕒 30 minutes

Divide youth into groups. Give each group a copy of the *Building Better Breakfasts* handout. Have each group plan at least one breakfast using three different food groups.

When they have finished, write their breakfast ideas on the flipchart. Youth may draw pictures to illustrate their breakfast choices. Post the breakfast ideas around the room.

Have the groups compare their breakfasts with MyPlate to determine if they are meeting recommendations for a healthy meal.

? Ask: Which food groups were represented in your breakfast?

**REFLECT** (School Age)

? Ask: Did your breakfast have a variety of foods?

? Ask: What are some ways you could add more variety to your breakfast?



**APPLY** (School Age)

Have each child work with members of their family to plan three easy, nutritious breakfasts that they could fix for themselves before

## Lesson 3: Break It Up – Breakfast First!

### PREPARATION

🕒 45 minutes




### SET UP

- ❑ Read the recipes in the handout
- ❑ Set up 4 cooking stations

### SUPPLIES

See recipes for ingredients and utensils list.

### HANDOUTS & BOOKS

- ❑ *How to Wash Your Hands*  p. 173
- ❑ Recipe: *Four Fun Breakfasts*  p. 209
- ❑ Recipe: *Banana Split Cereal*  p. 210

school. Aim for three different food groups in each breakfast menu. Give them each a copy of the *Building Better Breakfasts* handout to take home.

### Now We're Cookin' - Four Fun Breakfasts

(All Ages) 🕒 45 minutes

Have youth wash their hands using proper handwashing steps. Separate youth into four groups as shown below to prepare the following recipes, which you will find in the handout *Four Fun Breakfasts*.



- Group 1: Fruit and Nut Oatmeal
- Group 2: Breakfast Smoothie
- Group 3: Banana Dogs
- Group 4: Breakfast Taco

Optional: As an alternative cooking adventure, try *Banana Split Cereal*. The recipe is in Appendix A. The recipe takes about 15 minutes to prepare.

#### REFLECT (All Ages)

? Ask: What are some other quick and easy breakfasts that you could make that combine at least three food groups?

#### APPLY (All Ages)

Encourage youth to make some of these breakfast ideas at home for themselves and their family members and report the family breakfast favorite back to the group.

### Technology Challenge

(All Ages)

Visit <http://kidshealth.org/en/parents/breakfast.html>. Scroll down to "More on this Topic" and click on the tabs "For Parents," "For Kids" or "For Teens" to learn about the importance of eating breakfast and find some new ideas for traditional and/or unusual recipes.

## Lesson 4: Snack Attack

### PREPARATION

🕒 5 minutes

### SET UP

Place the MyPlate poster on a wall.

### SUPPLIES

MyPlate poster [RL](#)

### HANDOUTS & BOOKS

- ❑ *MyPlate Snack 10 Tips for Kids: Making Great Tasting Snacks* [A](#) p. 211
- ❑ *Choose the Foods You Need to Grow: 10 Tips for Teen Guys* [A](#) p.212
- ❑ *Eat Smart and Be Active As you Grow: 10 Tips for Teen Girls* [A](#) p. 213

### Outcomes (All Ages)

The purpose of this lesson is to have youth:

- Learn how to use food labels to make healthy snack choices
- Prepare an easy snack with a variety of foods
- Practice making wise snack choices



### Instructor Essential Information

Most youth don't get all the nutrients they need from three meals a day to grow strong and stay healthy. Snacking can be a healthful way to meet nutritional needs. Snacks are a great way to get more fruits, vegetables, whole grains, and low-fat dairy foods into a child's diet. The nutrition facts on food labels can help youth to compare snacks and make healthy choices.

Print the handouts shown below for use in Activity 1. They are available in Appendix A.

- *MyPlate Snack 10 Tips for Kids: Making Great Tasting Snacks*
- *Choose The Foods You Need to Grow: 10 Tips for Teen Guys*
- *Eat Smart and Be Active As You Grow: 10 Tips for Teen Girls*

### Discussion

[DO](#) (All Ages) 🕒 15-20 minutes

? Ask: Do you think snacking is a good idea? Why or why not?

? Ask: What are your favorite snacks? Explain that growing youth need more nutrients than some adults. Snacking can help meet those nutrient needs when you choose low-fat, nutrient dense foods. Nutrient dense foods are foods that are low in calories, but high in nutritional value.

? Ask: Can you name some snacks that you think are nutrient dense? Stress that regardless of age, snacks can fill in the nutrient gaps. Some people eat three nutritiously complete meals while others, especially small children, may need to complement their meals with healthy snacks. Make your snacks count toward



## Lesson 4: Snack Attack

### PREPARATION

🕒 15 minutes

### SET UP

- ❑ Place the MyPlate poster on a wall.
- ❑ Make copies of the handouts.

### SUPPLIES

- ❑ MyPlate poster [RL](#)
- ❑ Three signs: GO, SLOW, & WHOA
- ❑ Assorted snacks (pretzels, candy bar, fruit) or Dairy Council food model pictures [RL](#)

### HANDOUTS & BOOKS

- ❑ *MyPlate Snack Tips for Kids: 10 Tips For Making Great Tasting Snacks* [A](#) p.211.
- ❑ *Choose the Foods You Need to Grow: 10 Tips for Teen Guys* [A](#) p.212
- ❑ *Eat Smart and Be Active As you Grow: 10 Tips for Teen Girls* [A](#) p. 213

your food group needs.

Display the MyPlate poster. Go through each food group and ask the youth to name some healthy snacks from that group.

### Activity 1 – Go/Slow/Whoa

**DO** (All Ages) 🕒 20-30 minutes

Stress the importance of making healthy choices for snacks. Explain that youth will be running a relay race where each one will select a snack from the food models or bag of actual snack foods and sort them into the GO, SLOW, or WHOA categories. Be sure to select snacks that are popular with children. Here are some foods that fall into each of the categories:

- **WHOA** - Candy bars, potato chips
- **SLOW** - Chocolate milk, pudding
- **GO** - Foods such as fruits, vegetables and whole wheat pretzels

Set up a relay race with two bags of snacks and two sets of signs on different tables. Have each team member select a snack then run to the table and put it under the proper sign. The team that has the most snacks in the right categories wins. Discuss as a group which snacks fit into which category. Stress the importance of nutrient dense foods vs. empty calories when categorizing snacks.

**APPLY** (All Ages)

Give youth one of these handouts to help make good snack decisions at home or school.

- *MyPlate Snack Tips for Kids: Making Great Tasting Snacks*
- *Choose The Foods You Need to Grow: 10 Tips for Teen Guys*
- *Eat Smart and Be Active As You Grow: 10 Tips for Teen Girls*



## Lesson 4: Snack Attack

### PREPARATION

🕒 5 minutes

### SET UP

Two signs: NUTRIENT DENSE and EMPTY CALORIES

### SUPPLIES

Assorted snacks in bags - pretzels, candy bar, fruit, chips



### PREPARATION

🕒 5 minutes

### SET UP

Place flip chart in front of room

### SUPPLIES

- ☐ Flip chart
- ☐ Markers

### Activity 2 – Check The Snack Label

**DO** (All Ages) 🕒 20 minutes

Have each youth select a snack. Use actual pre-packaged snacks or food models that have nutrition information on the back. Put a sign labeled **NUTRIENT DENSE** at one end of a table or room. Put a sign labeled **EMPTY CALORIES** at the other end. Have the youth line up with the snacks they chose in a continuum from **NUTRIENT DENSE** snack choice to **EMPTY CALORIES** snack choice. The criteria could be amount of fat, calories, sugar, or nutritive value.

**CALORIES IN ONE GRAM OF:**  
 Fat = 9 calories  
 Carbohydrate = 4 calories  
 Protein = 4 calories

When they are finished, have the group evaluate their positions in the line. You might have them read the labels and re-align themselves according to the amount of calories per serving, and/or amount of fat or salt or sugar per serving.

**REFLECT** (All Ages)

? Ask: Were any of you surprised at your position in the snack line-up? Why or why not?

**APPLY** (All Ages)

At the next session, bring in wrappers from three snacks that you or your family members have eaten during the week. Are these snacks nutrient dense?

### Activity 3 – Snacking Dilemmas

**DO** (Middle School • Teen) 🕒 15 minutes

This activity is designed to give teens practice in deciding which snacks to eat. A snack dilemma is when it is easier to choose an empty calorie snack than one that is better for you.

Record youth answers to the following questions on the flipchart or paper.

? Ask: When do you have snack dilemmas? Possible answers: when running late, at someone else's house, at school, or when there are no healthy choices easily available. Next to each snack dilemma determine possible solutions in that situation.

? Ask: Could planning ahead make it easier to have a healthy

## Lesson 4: Snack Attack



### PREPARATION

🕒 30 minutes

### SUPPLIES

See recipe for ingredients and utensils list.

### HANDOUTS & BOOKS

- ❑ *How to Wash Your Hands*  p. 173
- ❑ *Recipe: Pita Pizzas*  p. 214

snack? Which of these dilemmas might be avoided if the person had eaten a good breakfast or lunch?

### Now We're Cookin' - Pita Pizzas

(All Ages) 🕒 45 minutes

Have youth wash their hands using proper handwashing steps.



Divide youth into groups to prepare Pita Pizzas. The recipe is in Appendix A.



### Technology Challenge

(All Ages)

Visit *Healthy Snacking* at

[http://www.heart.org/HEARTORG/HealthyLiving/HealthyEating/Nutrition/Healthy-Snacking\\_UCM\\_301489\\_Article.jsp#.WByzSsk4f40](http://www.heart.org/HEARTORG/HealthyLiving/HealthyEating/Nutrition/Healthy-Snacking_UCM_301489_Article.jsp#.WByzSsk4f40)

and pick out your favorite snacks from the Crunchy, Thirst Quenchers, Munchy and Sweet Categories.

## Lesson 5: Vegetarianism In A Nutshell

### Outcomes (School Age)



The purpose of this lesson is to have youth:

- Learn that there are different types of vegetarians and they eat different kinds of food
- Understand that there are many reasons for becoming vegetarian
- Prepare and sample a vegetarian recipe

### Instructor Essential Information

Some people choose to eat a vegetarian diet. They do this for cultural, religious, or health reasons. A vegetarian diet can be a very healthy one. Instead of meat, vegetarians get their protein from plant sources.

Vegetarian types include those who eat food from plants, milk products and eggs, called lacto-ovo vegetarians and vegans, who only eat food from plants.

Everyone needs to eat different kinds of foods to get the nutrients they need to be healthy. In a typical American diet, several important nutrients - iron, zinc, and B vitamins - are largely obtained by eating meat, fish, and poultry. Therefore, those who follow a vegetarian diet need to get these nutrients in another way.

Vegans especially need to pay close attention to whether their daily requirement of vitamin B12 is met because animal products are the only natural food sources of vitamin B12. Vegans must supplement their diets with a source of this vitamin.

Vegans also need to ensure that they get an adequate amount of vitamin D and calcium, which most Americans obtain from milk products. This is particularly important for youth on a vegan diet.



## Lesson 5: Vegetarianism In A Nutshell

### PREPARATION

🕒 5 minutes

### SUPPLIES

- ❑ Flip chart or blackboard
- ❑ Marker or chalk

### Discussion

**DO** (School Age) 🕒 20 minutes

? Ask: What did you have for breakfast today? For lunch yesterday? For dinner? Did you have meat at every meal?

? Ask: Do you know what we call people who never eat meat, chicken or fish? Answer: vegetarians.

Write the phrases “vegetarian meal” and “meat-based meal” on the board or flipchart. Ask youth to write under the correct header examples of foods they ate in the last two days that fall under those categories. Example: a bean burrito is a vegetarian meal; a chicken Caesar salad is a meat-based meal.

? Ask: Does anyone know any vegetarians? What do vegetarians eat instead of meat? Possible answers: beans, tofu, grains, cheese (some vegetarians) vegetables and fruits. Explain that there are two kinds of vegetarians: lacto-ovo, and vegans.

? Ask: Can you think of any reasons why someone wouldn't want to eat meat? Possible answers: religious reasons, high saturated fat content in some meat, they don't want to kill animals, they don't like the way livestock are treated, or they don't like the taste.

Explain that following a vegetarian diet can be very healthy but vegetarians need to pay special attention to assure they are getting enough iron, zinc, and B vitamins.

## Lesson 5: Vegetarianism In A Nutshell




### PREPARATION

🕒 30 minutes

### SUPPLIES

See recipes for ingredients and utensils list.

### HANDOUTS & BOOKS

- ❑ *How to Wash Your Hands*  p. 173
- ❑ Recipe: *Tacos*  p. 216
- ❑ Recipe: *Hummus*  p. 216

### Now We're Cookin' – Tacos and Hummus

(All Ages) 🕒 30 minutes

Have youth wash their hands using proper handwashing steps. Have youth prepare the recipes for *Tacos* and *Hummus*. Recipes can be found in Appendix A.



#### APPLY (School Age)

Tonight ask your family to think of all the meatless meals they eat. Share your examples with the group next time you meet.

### Technology Challenge

(School Age)

Go to <http://www.whatscooking.fns.usda.gov> and search for a delicious vegetarian dish to make for your family.

## Lesson 5: Vegetarianism In A Nutshell

### PREPARATION

🕒 10 minutes

### HANDOUTS & BOOKS

*Healthy Eating for Vegetarians: 10 Tips for Vegetarians*

📖 p. 217

### Outcomes (Middle School • Teen)

The purpose of this lesson is to have youth:



- Understand some of the reasons why people choose to eat a vegetarian diet
- Explore the benefits and challenges of a vegetarian diet for young people
- Prepare and sample a vegetarian recipe

### Instructor Essential Information

#### SET UP DETAILS

See Instructor Essential Information for School Age children. Youth will learn about vegetarian diets for young people by reading and discussing the handout: *Healthy Eating for Vegetarians: 10 Tips for Vegetarians*. After reading the article, youth will share what they learned about vegetarian eating habits.

### Discussion

**DO** (Middle School • Teen) 🕒 35-40 minutes



Have youth read the article *Vegetarian Diets* at [http://www.heart.org/HEARTORG/HealthyLiving/HealthyEating/Vegetarian-Diets\\_UCM\\_306032\\_Article.jsp#](http://www.heart.org/HEARTORG/HealthyLiving/HealthyEating/Vegetarian-Diets_UCM_306032_Article.jsp#). You can also use the handout *Healthy Eating for Vegetarians 10 Tips for Vegetarians* handout for reference. After each youth has read the article, have a discussion using these questions:

- Are vegetarian diets healthy? If so, why?
- What are the nutrients to consider with a vegetarian diet?
- What are the different kinds of vegetarian diets?

### Technology Challenge

(Middle School • Teen)

Go to <http://www.whatscooking.fns.usda.gov> and search for a delicious vegetarian recipe.

**APPLY** (Middle School • Teen)

Take home the recipe you selected above and make it for your family. Share with the group their reactions to the meatless meal.



## Lesson 6: Energy Drinks and Foods

### PREPARATION

 30 minutes

### SET UP

See Set Up Details.

### SUPPLIES

- One 2-cup measuring cup for each group
- Bottled water or tap water
- Drinking straws
- Paper cups or drinking glasses for 12 oz. of water
- A variety of sports energy bars, drinks and gels (save the grocery receipt for price comparison)
- 3 X 5 index cards
- Marker
- Peeled cucumber and oranges
- Napkins
- Sports pinnies or flags

### HANDOUTS & BOOKS

Picture or poster of the entire human body (can be a magazine picture)

### Outcomes (School Age)

The purpose of this lesson is to have the children:



- Learn that their bodies need water every day to be healthy
- Learn what 12 ounces of water looks like
- Understand that water is the best way to hydrate before, during, and after exercise
- Learn that many foods contain water
- Compare prices of sports drinks and sodas
- Participate in an aerobic activity

### Instructor Essential Information

#### SET UP DETAILS

The instructor should do the following before class begins:

- Set out several liquid measuring cups and bottled water.
- Have at least one drinking straw for each youth.
- Display several kinds of sports energy bars, drinks, and sports gels. Divide them into small amounts for sampling.
- On a 3 X 5 index card, use a marker and write the name and price of each energy bar, sports drink, or gel. Write the name of the item on the other side as well, but not the price. Place the card price-side down so the amount is not visible.
- Peel cucumber and oranges. Cut them into slices and separate them so that there are one to two slices of each for everyone.
- Display picture or poster of human body where it is visible to everyone. You can use a magazine picture of a model or athlete if necessary.

### Discussion

**DO** (School Age)  15 minutes

**? Ask:** How much of your body is made of water? Answer: 55-70%. Use the magazine picture of the human body to illustrate what 55-70% looks like. You may wish to use a marker to color 70% of the body so that the youth understand just how much this figure represents.

**? Ask:** Can you name some of the functions that water has in the human body? Answers: water helps with food digestion, helps the blood transfer needed nutrients to muscles, helps keep blood moving smoothly through veins, and helps regulate heating and cooling systems in the human body.

## Lesson 6: Energy Drinks and Foods



Since we need water for critical body functions, it is important that we continuously replace the water we lose when we exercise, sweat and go to the bathroom.

**? Ask:** Can you name some foods that contain a large percentage of water? Examples: milk, juice, soda, smoothies, other beverages, fruits and vegetables.

Explain that all foods contain some water and many foods, especially fruits and vegetables, contain large amounts of water. Stress that if youth eat a variety of foods with plenty of fresh fruits and vegetables, they will get about 20% of the water their bodies need from their food. The rest must come from the beverages they drink. Use the picture of the body to show what 20% and 80% look like.

### SET UP

See Set Up Details.

### SUPPLIES

- ❑ One 2-cup measuring cup for each group
- ❑ Bottled water or tap water
- ❑ Drinking straws
- ❑ Paper cups or drinking glasses that will hold 12 ozs. of water

### Activity 1 – How Much Water Is In A Soda Can?

**DO** (School Age) ⌚ 10 minutes

Divide the children into groups. Give each group some bottled water and a liquid measuring cup. Make sure each group has a drinking glass and a straw for each person.

Have each child measure 12 ounces of water (1½ cups) into their glass. Explain that this is the size of a can of soda. Have them drink it or sip it with a straw.

While they are drinking their water, review the functions of water in the human body. Have them discuss whether this amount is more or less water than they normally drink in one serving.

**? Ask:** Why is it preferable to drink 12 ozs. of water vs. 12 ozs. of soda? Possible answers: water hydrates your body better than soda, soda is nothing but empty calories, a 12 oz. can of soda contains 10 teaspoons of sugar.



### SUPPLIES

- ❑ Peeled cucumber and oranges
- ❑ Napkins

### Activity 2 – Tasting The Water In Food

**DO** (School Age) ⌚ 10 minutes

Give each child one slice each of orange and cucumber. Have them taste each one separately.

**? Ask:** Can you taste the water in the food?

## Lesson 6: Energy Drinks and Foods

Earlier in the lesson, youth learned what 1½ cups of water looks like. Next, ask them to guess what percentage of a cucumber is water. What percentage of an orange is water? Answers: a cucumber is 96% water, an orange is 88% water. You can also provide samples of several other low- and high-water content foods for comparing texture, juiciness and taste. Examples might include: crackers, pretzels, watermelon, carrots, tomatoes, mangoes, lettuce, etc.

### SUPPLIES

Sports pinnies or flags

### Activity 3 – Tag Or Muscle “Rest” Game

**DO** (School Age) ⌚ 15 minutes

Tell youth that they will be playing a game of tag. Ask for two to three volunteers to be “it” at the beginning and give them flags or pinnies to wear. Confine the tag game to a specific area where there are no safe bases. The object of the game is for the youth wearing the pinnies to tag the other youth. After a youth has been tagged, he/she must take the pinnie and become “it.”



If a youth wants to rest, he or she may stop running but must complete a set of 10 activities such as sit-ups, push-ups, wall push-ups, step-ups, chin-ups, or other muscle-building activities that have been predetermined as “rest” activities. (A step-up requires youth to “step up” 10 times with each leg, using a sturdy step.) After the tag game has ended, ask the following questions.

**?** Ask: Did you notice that your body began to sweat during or after the game? Why do we sweat? Answer: it cools us off so we don’t overheat. We need to replace the water we lose through sweating.

### SET UP

See Set Up Details.

### SUPPLIES

- ❑ Paper cups
- ❑ A variety of sports energy bars, drinks and gels (save the grocery receipt for price comparison)
- ❑ 3 X 5 index cards with item name and price
- ❑ Marker

### Activity 4 – Tasting Food Bars & Energy Drinks

**DO** (School Age) ⌚ 10 minutes

Give each child a few samples of different sports bars, gels and energy drinks. Have them try each one separately and discuss the taste and texture. Do they like the taste? Why or why not? Place the 3 X 5 index cards for each energy bar, sports drink, or gel card price-side down so the amount is not visible. As a group, have the children rate each one on a scale of 1 to 5, where 1 is great and 5 is yucky.

Did the more expensive drinks and bars get a better rating? Discuss whether or not the sports bars, gels and energy drinks are a “good buy” economically and nutritionally. Refer to the food

## Lesson 6: Energy Drinks and Foods



labels for the ingredient list. Are there other, cheaper and better tasting alternatives that provide the same nutrients?

### REFLECT (School Age)

? Ask: How much do you think these sports gels and energy bars cost?

? Ask: What other foods might provide some of the same nutrients as the sports drinks and bars? Examples: milk, whole-grain bread, nuts, peanut butter, fruits and vegetables, fruit juice.

? Ask: How much do you think these sports drinks cost? Have youth guess the cost of each of the sports drinks, but don't share the answers.

? Ask: Why do you think these sports drinks cost so much? Can you identify another beverage that provides the same benefit? Answer: water.

? Ask: Why do you think two young people of the same age might need different amounts of water? Answer: the amount of water each person needs depends on size, where they live, and how active they are.

Discuss how exercise affects how much water we need to drink. The more active youth are the more water they need.

? Ask: What are other things that affect how much water we drink every day? Does weather make a difference? How?

### APPLY (School Age)

Ask youth to keep a record for one week of how much liquid they drink. To keep track of their consumption, have children measure the glass or cup they usually drink from to see how much liquid it contains or drink from pre-measured beverage containers. Have them record the amount and type of beverage: water, milk, juice, or soda. What else did they drink (e.g., milkshakes, smoothies, ice tea)? Which beverage did they drink the most?

## Lesson 6: Energy Drinks and Foods

### PREPARATION

🕒 45 minutes


### SET UP

See Set Up Details.

### SUPPLIES

- Marker or pen
- 3 X 5 index cards
- 2-4 tablespoons and teaspoons
- Bottled water or tap water
- Paper cups
- A variety of sports drinks, bars, gels
- Oranges and cucumbers (1-2 slices per youth)
- Napkins
- Bottled lemon and lime juice
- One small can of orange juice concentrate
- Salt
- Empty gallon container or pitcher
- Food pictures from magazines
- Index cards with percent of water in foods (see Set Up Details)
- 12-ounce container of water for display
- One 2-quart milk carton, filled with water

### HANDOUTS OR BOOKS

*TipSheet 19: Make Better Beverage Choices, 10 Tips to Get Started*  p. 177

### Outcomes (Middle School • Teen)

The purpose of this lesson is to have youth:



- Understand that water is the best way to hydrate under most circumstances
- Identify the instances when a sports drink, gel or energy bar is an appropriate substitute for water or food
- Learn that many foods contain water
- Compare prices of sports drinks and sodas
- Make a homemade sports drink
- Understand that energy bars and gels do not build bigger muscles or provide better energy
- Participate in an aerobic activity
- Understand the physiological reasons for sweating

### Instructor Essential Information

#### SET UP DETAILS

Before lesson begins, the instructor should:

- Set out orange, lime, and lemon juices, salt, water, measuring spoons, mixing equipment and cups for making and sampling sports drinks.
- Display several kinds of sports drinks, energy bars, and gels and divide them into small amounts for sampling.
- On a 3 X 5 index card, write the price of each energy bar or sports drink. Also write the name on the other side but not the price. Place cards price-side down so the amount is not visible.
- Peel cucumber and oranges. Cut them into slices and separate so that there is at least one slice of each for everyone.
- The instructor or youth should cut out pictures from magazines of the following foods: chicken noodle soup, broccoli, milk, orange, oatmeal, grapes, rice, roasted chicken, roast beef, whole wheat bread, beef jerky, raisins, oatmeal cookie, saltine crackers, and rice cereal. On separate index cards, write the corresponding percentage of water these foods contain. See Activity 5 – Body of Water Relay instructions on p. 104 for percentage amounts.



## Lesson 6: Energy Drinks and Foods

### Discussion

**DO** (Middle School • Teen) ⌚ 25 minutes

? Ask: How much of your body is made of water? Answer: 55-70%.

? Ask: Why are beverages important? Explain that beverages contain mostly water. Since so much of your body is made of water, you need to drink a lot of it to remain healthy. Share with youth that more than 80% of blood is water; 70% of muscle is water; 25% of body fat is composed of water; and more than 20% of bone is water.

? Ask: Can you name some of the other important functions of water in the human body? Answers: Water:

- Helps with food digestion
- Makes it possible for blood to transport needed nutrients to muscles
- Helps blood move smoothly through veins
- Regulates the heat and cooling system in the human body
- Acts as a lubricant and protective cushion around tissues and sensitive organs like the eyes and brain

Because we need water for bodily functions, it is important to continuously replace the water we lose when we exercise, sweat, and use the bathroom.

Explain to youth that there is no absolute rule about how much water they should drink each day. It depends on how active they are and where they live. While exercising or playing sports, you should regularly replace fluids that are lost through sweating.

Sweating serves a very important function in the body. It helps to regulate body temperature.

The 2015 Dietary Guidelines recommend to drink water instead of sugary drinks. Regular soda, energy or sports drinks, and other sweet drinks usually contain a lot of added sugar, which provides more calories than needed. Let your thirst be your guide. Water is an important nutrient for the body, but everyone's needs are different. Most of us get enough water from the foods we eat and the beverages we drink. A healthy body can balance water needs throughout the day. Drink plenty of water if you are very active in hot conditions.

## Lesson 6: Energy Drinks and Foods

A quick way to tell if you are properly hydrated is to check the color of your urine. If your urine is clear or a very pale yellow, you are probably getting enough water. If your urine is dark and concentrated you need more water.

? Ask: Can you name some foods that provide water for our bodies? Examples: milk, juice, fruit and vegetables. Explain that all foods contain some water. Many foods, especially fruits and vegetables, contain a large amount of water.

? Ask: Can you guess the prices on the sports drinks and energy bars?

? Ask: Why do you think some drinks might be more expensive than others?

? Ask: What foods might provide some of the same nutrients as the sports drinks and bars? Examples: milk, whole-grain bread, nuts, fruit and vegetables, peanut butter, fruit juice. Stress that if youth eat a variety of foods with plenty of fresh fruits and vegetables, they will get about 20% of the water their bodies need from their food. The rest needs to come from the beverages they drink.

? Ask: Can you give an example of when you might need to drink a sports drink or eat an energy bar instead of other food? Stress that water and a healthy varied diet with plenty of fruits, vegetables, lean meat, low-fat dairy products and whole wheat grains is the best fuel for athletes and growing teens.

The only time young people need to supplement their athletic regimens with sports drinks is when they are doing continuous and strenuous exercise for longer than 60 minutes, or when exercising in very hot weather. Sports drinks provide electrolytes (such as sodium and potassium) and carbohydrates that may be depleted during long, strenuous activities.

Energy bars and gels can provide a quick source of energy, usually from carbohydrates. If a teen is engaged in sports or activities such as long-distance running or long hikes, such foods are convenient and lightweight. Otherwise, the best choice for athletic fuel is getting energy from a variety of healthy food sources.

Stress to youth that many energy bars promise bigger muscles and enhanced performance. However, the only real way to grow stronger and enhance performance is the old-fashioned way - an appropriate training regimen combined with a healthy diet.





## Lesson 6: Energy Drinks and Foods

### SUPPLIES

See recipe for ingredients and utensils list.

### HANDOUTS & BOOKS

- ❑ *How to Wash Your Hands*  p. 173
- ❑ Recipe: *Homemade Sports Drink*  p. 218

### SET UP

See Set Up Details.

### SUPPLIES

- ❑ Paper cups
- ❑ Marker
- ❑ A variety of sports energy bars, drinks and gels (save the grocery receipt for price comparison)

### SUPPLIES

- ❑ Peeled cucumber and oranges
- ❑ Napkins

### SUPPLIES

Sports pinnies or flags


## Now We're Cookin' - Homemade Sports Drink

(Middle School • Teen)  20 minutes

Have youth wash their hands using proper handwashing steps. Make the *Homemade Sports Drink* either as one large group or divide the youth into groups. If you have several groups, give each group one gallon of water and the ingredients for the *Homemade Sports Drink*. The recipe is in Appendix A. Refrigerate and use as a refreshment for youth in the coming week.



### Activity 1 – Comparing Sports Drinks

 (Middle School • Teen)  20 minutes

Each group will taste and compare their homemade sports drink with a store-bought sports drink, such as Gatorade. Create a blind taste test by giving each group both types of drinks in paper cups labeled A and B. Make sure no one can identify which drink is which.

? Ask: Which one do you like better? Why?

Have groups compare the label of the Gatorade to the ingredients in the homemade drink.



? Ask: How are the ingredients of the two drinks similar? How do they differ?

### Activity 2 – Tasting The Water In Food

 (Middle School • Teen)  10 minutes

See School Age instructions for Activity 2 - Tasting The Water In Food on page 97.

### Activity 3 – Tag or Muscle “Rest” Game

 (Middle School • Teen)  15 minutes

See School Age instructions for Activity 3, Tag or Muscle “Rest” Game, on page 98.

## Lesson 6: Energy Drinks and Foods

After the tag game, ask the youth if their bodies began to sweat during or after the game.

? Ask: Why do we sweat? Answer: it cools us so we don't overheat.

**Optional Activity:** Older youth may wish to do another activity in place of the Tag or Muscle "Rest" Game. Suggestions include a dance aerobic DVD or YouTube exercise video, walking up and down stairs, playing continuous basketball or any other activity that keeps their heart rates elevated during the length of the activity.

### SET UP

See Set Up Details.

### SUPPLIES

- ❑ Paper cups
- ❑ A variety of sports energy bars, drinks and gels (save the grocery receipt for price comparison)
- ❑ 3 X 5 index cards with item name and price
- ❑ Marker

### SET UP

See Set Up Details.

### SUPPLIES

- ❑ Marker or pen
- ❑ 3 X 5 index cards
- ❑ Bottled water or tap water
- ❑ Empty gallon container or pitcher
- ❑ Food pictures from magazines
- ❑ Index cards with

### Activity 4 – Tasting Food Bars & Energy Drinks

**DO** (Middle School • Teen) ⌚ 10 minutes

See School Age instructions for Activity 4, Tasting Food Bars & Energy Drinks, on page 98.



### Activity 5 – Body of Water Game

**DO** (Middle School • Teen) ⌚ 15 minutes

Remind youth that water is essential to the body. Explain the need to frequently replace water in our bodies through food and beverages. Share the following interesting water facts:

- An adult will lose up to 8 cups of water a day, which is the amount of liquid in a ½ gallon carton of milk. Show a ½ gallon (2-quart) container of water.
- The amount of water lost in one day just from breathing is 1½ cups of water. That is 12 ounces. Show youth a 12-ounce container of water.

Tell youth they will be playing the Body of Water game.<sup>4</sup>

<sup>4</sup> The Body of Water Activity is adapted from: WIN Kids Fun Days, Wellness in the Rockies: [http://www.uwyo.edu/winterockies\\_edur/win%20kids%20fun%20days/pleasurable%20eating/body%20of%20water/body%20of%20water%20activity.pdf](http://www.uwyo.edu/winterockies_edur/win%20kids%20fun%20days/pleasurable%20eating/body%20of%20water/body%20of%20water%20activity.pdf)

## Lesson 6: Energy Drinks and Foods

water percentage for Body of Water Activity

- ❑ 12-ounce container of water for display
- ❑ One 2-quart milk carton, filled with water

Depending upon the size of the group, give each youth either a food picture from the list below, or an index card with a water content percentage. The pictures can be cut from a magazine. The object of the game is to match the food item card with the water content percentage card.

Below is the correct matching information.

Food Item Water Content	
• Chicken noodle soup 93%	• Roast beef 57%
• Broccoli, raw 91%	• Whole wheat bread 38%
• Milk 89%	• Beef jerky 23%
• Orange, raw 87%	• Raisins 15%
• Cooked oatmeal 85%	• Oatmeal cookie 6%
• Grapes 81%	• Saltine crackers 4%
• Cooked rice 68%	• Crispy rice cereal 2½%
• Roasted chicken 60%	

**REFLECT** (Middle School • Teen)

? Ask: Why would two young people who are the same age need different amounts of water? Discuss how exercise and weather affect how much water we need.

? Ask: What important mineral is in orange juice that makes it a good ingredient for a homemade sports drink? Answer: potassium.

? Ask: Why is it so important to drink plenty of fluids before you feel thirsty? Answer: by the time you feel thirsty you may already be experiencing dehydration.

**APPLY** (Middle School • Teen)

Ask youth to keep a record for one week of how much water they drink. To keep track of their consumption, have youth measure the glass or cup they usually drink from to see who much liquid it contains or drink from pre-measured beverage containers.

Ask them also to keep a record of milk, juice and sodas that they drink. Which beverages do they drink the most?



## Lesson 7: Body Image

### Healthy Comes in Lots of Sizes

#### PREPARATION

🕒 1-2 minutes

#### Outcomes (Middle School • Teen)



The purpose of this lesson is to have youth:

- Understand that many factors affect body weight
- Understand that healthy eating habits, regular physical activity, and less screen time can help keep a body healthy
- Participate in a goal setting activity

#### Discussion

**DO** (Middle School • Teen) 🕒 10-15 minutes

Introduce a discussion of the factors that affect body size and weight. If youth do not mention the ideas below, suggest some of these examples.

- **Heredity** - Our genes determine many things about our bodies including color of skin, eyes and hair; height, and body frame.
- **Eating habits** - Youth may overeat or eat poorly for a variety of reasons including: responding to stressful situations, lack of time, limited access to healthy foods or peer pressure. This may lead to frequent consumption of fast food or other high-fat or high-calorie foods instead of regular, balanced, meals.
- **Activity habits** - Youth have many demands on their time and must often make choices between participation in physical activities, such as exercise and team sports, or other demands on their time.

? Ask: Do you think all the body types are "normal?"

? Ask: What are some demands on your free time?

? Ask: What specific personal factors are attributable to genetics (your family), versus personal habits or environment? Remind youth that they have control over some factors affecting their weight such as eating habits and physical activity patterns.

? Ask: How does our culture influence our ideas about body image? Are there different desirable body images related to our family background or ethnicity? Do we have different ideas about how some groups should look based on their occupations? How about athletes, models, body builders, doctors, musicians and others?

## Lesson 7: Body Image



? Ask: Do you think that an athlete or a fashion model has a body that an average person can attain? Why or why not?

? Ask: How do models, athletes and other “public” people keep their bodies “in shape?” Do models and film stars look the same in real life as they do in magazines and movies?

? Ask: Does being thin mean being healthy? Why or why not?


Review the discussion, emphasizing that youth DO have some control over what and how much they eat, and how physically active they are. Stress that it is important to remember that there are many reasons to eat healthfully and be active. Maintaining and/or losing weight is just one of them. What are some other reasons? One step to maintaining a healthy weight may be setting realistic goals. Setting these and other healthy lifestyle goals can be the first step to a healthier life!

### Activity 1 – Goal Setting

#### SUPPLIES

- Tape
- Small stuffed beanbag or ball

#### HANDOUTS & BOOKS

*Helping Terry*   
p. 219.

**DO** (Middle School • Teen) ⌚ 20-25 minutes

Before beginning, have the youth sit in a large circle while the instructor explains how the activity will work. The instructor holds the beanbag and chooses a youth who reads the scenario from the *Helping Terry* handout. The other participants will make suggestions about how to help the person in the story. Tell youth that only the person with the beanbag may speak. The beanbag will be thrown to each person in turn.

To start the discussion, the instructor might say: “One realistic goal Terry can make is to include at least one vegetable when she is helping prepare dinner.”

The instructor then throws the beanbag to one of the youths in the circle, who then makes another suggestion. The activity continues until each youth has offered at least one suggestion or goal for Terry.

**Instructor note:** If someone suggests that Terry set a goal that is not very realistic, such as joining an expensive gym, do not be critical, but ask for a more realistic alternative. For example, “Suppose Terry couldn’t afford a membership to a gym, what could she do instead?” A sample answer might be: try exercise videos on YouTube. Question the group in this way to help them determine if their suggestions are realistic.

## Lesson 7: Body Image

Emphasize that real change happens slowly. To make lasting changes, Terry needs to take "baby steps." A sudden drastic change in diet and physical activity level for Terry and her family will probably not be successful.

### REFLECT (Middle School • Teen)

? Ask: What is a healthy body image?

? Ask: Can you name some cultural differences in how people define the "perfect" body?

? Ask: Do you think that things like historical trends, technology, climate, or fashion influences our ideas about the "ideal" body?

? Ask: How do the bodies of athletes today differ from athletes 25 years ago?

? Ask: Are the expectations for females different than males when it comes to healthy body image?

### APPLY (Middle School • Teen)

Ask youth to set one small goal for improving their health. Ask for volunteers to share their goal if they wish to. Sharing their goal should be strictly voluntary – no pressure.

## Technology Challenge

(School Age)

To discover factors affecting body size and why we look the way we do, visit

<http://www.cyh.com/HealthTopics/HealthTopicDetailsKids.aspx?p=335&np=287&id=1634#2>

(Middle School • Teen)

Challenge one of your friends or family members to a "BETCHACAN'T" activity at Kidnetic: <http://www.kidnetic.com>.

While at the Kidnetic site, complete the Fitness Challenge. See if your friends can match or beat your results! Or, participate in a fun scavenger hunt with your friends and get active at the same time.

Do you know what a BMI is? Find out how to calculate your BMI. If you would like to learn about the Body Mass Index tool, what it means and how to use it, go to

<https://www.choosemyplate.gov/tools-BMI>

## **Lesson 7: Body Image**

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# Chapter 3 Consumer Challenge

## Introduction

In Chapter three, youth are introduced to the challenges of being a consumer and how to interpret marketing claims. Youth learn that not all websites are credible and that they need to investigate the information provided on websites.

One of the important skills youth learn in Label Lingo is how to make healthy food choices by reading food labels. This lesson includes an activity that helps youth understand the terminology on a food label and how the numbers relate to the USDA 2010 Dietary Guidelines. Youth are encouraged to try some new and different food choices. Since typical food portions keep growing, youth learn what a healthy portion looks like and how to choose a healthy-sized meal.

## Lesson Summary

- |  |           |
|--|-----------|
| 1. Selling Or Telling                            | Nutrition |
| 2. Label Lingo                                   | Nutrition |
| 3. Media Mania                                   | Nutrition |
| 4. Eating Out                                    | Nutrition |
| 5. New And Unusual Foods: Why Not Give It A Try? | Nutrition |
| 6. It's All About Size: Portion Distortion       | Nutrition |

## Lesson 1: Selling or Telling

### Getting Reliable Information from the Web

#### PREPARATION

🕒 15 minutes

#### SUPPLIES

- ☐ Marker
- ☐ Poster board or easel

#### HANDOUTS & BOOKS

*Finding Good Food on the Internet*  p. 220

#### Outcomes (School Age)



The purpose of this lesson is to have the children:

- Learn safety rules for using the Internet
- Understand the basics of how the Internet, web browsers and search engines work
- Use a search engine
- Learn the difference between a website that is “selling” and one that is “telling”
- Identify a credible nutrition and/or fitness website
- Begin to develop research skills

#### Discussion

 (School Age) 🕒 20 minutes

Tell youth that safety on the Internet is very important and that they must follow these four rules. Write down or make a poster of the rules to hang in a visible spot in the computer lab.

#### INTERNET SAFETY - Rules for using the Internet:

- **Rule 1** Youth must not give out any personal information such as address, photo, telephone number, school location, etc., without permission from their parents or other adult (such as a teacher).
- **Rule 2** Youth should never join a chat group on the Internet at school or in the computer lab without their parent's permission. Stress that if they do get permission to join a chat room they must never tell their password to anyone.
- **Rule 3** Youth must tell their parents or another adult right away if they come across any information that makes them feel uncomfortable.
- **Rule 4** Youth must NEVER agree to get together with someone they "meet" online without first checking with their parents.



**? Ask:** What exactly is the Internet? Invite youth to share their ideas. Explain that the Internet is a huge collection of computers around the world that are all linked together so that we can “talk” to each other and share information.

## Lesson 1: Selling or Telling



? Ask: What is a web browser? Explain to the youth that a web browser is the software they are using to look at web pages. Anytime they look up something on the Internet they are using a web browser. There are a lot of different web browsers you can use. Some popular ones include *Chrome, Firefox, Safari, Internet Explorer, and Edge*.

? Ask: Which web browser are you using at home, in school, or in the computer lab?

? Ask: What is an Internet search engine? Explain that to do research on their computers for a homework assignment, or to find a game or something else that interests them, youth must know how to use an Internet search engine. Internet search engines help you find web pages on a given subject. The search engine does this by collecting information on the contents of web sites. One of the more popular search engines is Google <http://www.google.com>. There are many others.

Explain to youth that the Internet can be a very useful tool to search for information. While some websites provide good, credible information, others want you to buy a product and/or are promoting merchandise or ideas that aren't backed by scientific research. This is particularly true for nutrition and fitness websites.

Health information is one of the most researched topics on the web. Tell youth to be cautious about websites that make claims about food or fitness equipment that seem too good to be true. Stress that the best sources of information on food and fitness come from governmental agencies such as the United States Department of Agriculture, research universities, and professional organizations such as the American Dietetic Association.

### Activity 1 – Learning About Search Engines

**DO** (School Age) ⌚ 20 minutes

**Instructor Note:** If the children do not have basic computer knowledge, have them start with the first website under the Technology Challenge section. To complete this activity, you will need the *Finding Good Food on the Internet* handout.

Tell children that they will learn how search engines can help them find nutrition and food information on the web. Go to the Yahoo search engine at <http://www.yahoo.com> and type in the key words "ethnic foods."

Find three different recipes from various parts of the world. Write

#### PREPARATION

⌚ 15 minutes

#### SUPPLIES

Pencils

#### HANDOUTS & BOOKS

*Finding Good Food on the Internet*  p. 220

## Lesson 1: Selling or Telling

### SUPPLIES

- Poster board or easel
- Marker or chalk

down the names of the recipes, the country of origin, and the recipe ingredients on the handout. Pick one of the recipes to prepare during an upcoming lesson.

### Activity 2 – Find Reliable, Accurate Websites

**DO** (School Age) ⌚ 60+ minutes

? Ask: How can you determine if a website is accurate and reliable? Brainstorm this question and use the easel or blackboard, to make two lists. Begin the first list with: "A Website is Probably Credible If..." Have youth describe why a website might be viewed as credible. Examples: the information on the website will be credible if it comes from professional organizations, governmental agencies, or research institutions or universities, such as:

- American Dietetic Association
- American Medical Association
- American Cancer Association
- American Heart Association
- National Institutes of Health
- United States Department of Agriculture
- Food and Drug Administration
- Centers for Disease Control
- National Heart, Lung, & Blood Institute
- Tufts University
- Mayo Clinic



Begin the second list with: "You Should be Cautious of a Website If..." Have youth describe why a website might be viewed as less credible or reliable. Keep the lists in a visible place in the computer lab. Some possible examples of suspicious website claims are:

- Products promising miracle cures
- Words or phrases like "too good to be true," miraculous, instant results, etc.
- Products that claim results that are not based on scientific evidence
- Lists that identify foods that are "good" or "bad"
- Fitness equipment that claims it will make drastic changes in body appearance

After the two lists are complete, ask the youth to use a search engine such as Google: <http://www.google.com> or Yahoo: <http://www.yahoo.com> to search one of the following topics related

## Lesson 1: Selling or Telling

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to health and/or nutrition.

- Fitness
- Energy drinks
- Fad Diets
- Weight loss

Tell youth to pick two websites for each one of these health topics. One website should be chosen from the criteria identified above and another that seems less credible. Ask them to explain how they decided that a website may be misleading.

Finally, reinforce to the youth that the Internet is a wonderful and quick resource for them to learn about new things and to verify information they have heard from other sources. However, they should always evaluate a website's credibility based on the criteria they have established for "credible websites."

## Lesson 1: Selling or Telling

### PREPARATION

🕒 15 minutes

### SUPPLIES

- Marker
- Poster board or easel

### HANDOUTS & BOOKS

*Finding Good Food on the Internet* 



### SUPPLIES

- Poster board or easel
- Marker or chalk



### Outcomes (Middle School • Teen)



The purpose of this lesson is to have youth:

- Learn safety rules for using the Internet
- Be able to identify a credible nutrition and/or fitness website
- Recognize the difference between a marketing website and a research-based website
- Use the web to search for information relating to nutrition and/or health

### Discussion

DO (Middle School • Teen) 🕒 20 minutes

Use the School Age Discussion on Internet Safety, page 112.

### Activity 1 – Find Reliable, Accurate, Websites

DO (Middle School • Teen) 🕒 60+ minutes

Use the School Age, Activity 2 – Find Reliable, Accurate, Websites on page 114.

### Technology Challenge

(All Ages)

Go to <http://www.nutrition.gov>. There you will find videos, recipes and nutrition-related websites. Learn about ways to stay healthy and have fun too!

Visit the Centers for Disease Control and Prevention, Body and Mind and learn how to separate food fact from fiction: <http://www.cdc.gov/bam> In the menu at the left, click on “Food and Nutrition.”

Do you enjoy trying new kinds of foods? Visit <http://www.whatscooking.fns.usda.gov/> to find some exciting new recipes to try for your friends or family.

## Lesson 2: Label Lingo



### Outcomes (All Ages)

The purpose of this lesson is to have youth:

- Learn the components of a food label
- Use the label as a tool to make healthy food choices

### Instructor Essential Information

The use of the nutrition label on food products aids in the selection of wholesome foods. Labels allow you to:

- Compare products more easily. There is uniformity of serving sizes among similar products. Serving sizes are expressed in household measuring terms.
- Identify nutrients that relate to health concerns in a uniform way under the title **Nutrition Facts**.
- Compare nutrient content descriptive terms, which are carefully defined by law. Two examples are low-calorie which means 40 calories or less per serving, and light or lite which means 1/3 fewer calories per serving compared to the regular food.
- Review the ingredient list that appears on foods with two or more ingredients. By law, ingredients must be listed in descending order by quantity. This means that the first ingredient is the main ingredient



### SUPPLIES

Labels from several cereal boxes

### Discussion




DO (School Age) ⌚ 10 minutes

There are four major areas on food labels. Use cereal boxes to show the parts of the label. They are:

- **Nutrition Facts:** This panel contains dietary components that appear in a standardized format: calories, total fat, cholesterol, sodium, total carbohydrate, dietary fiber, total sugars, including added sugars, protein.
- **Nutrient List:** Vitamin D, calcium, iron and potassium must be listed on the label. Other vitamins and minerals are optional.
- **Ingredient List:** By law, ingredients are listed in descending order. The first ingredient is the main ingredient.
- **Descriptive Words:** While these are optional, they must be accurate. Descriptive words such as low-calorie and light have been defined by law.

## Lesson 1: Selling or Telling


### HANDOUTS & BOOKS

- ❑ *Sample Label for Muffins*  p. 206
- ❑ *Working on the Muffin Label*  p.221
- ❑ *Label Scavenger Quest*  p. 222

### SUPPLIES

Labels from several cereal boxes

### HANDOUTS & BOOKS

*Label Scavenger Quest*  p. 222

### Activity 1 – The Muffin Label

**DO** (School Age) ⌚ 45 minutes

Using the *Sample Label for Muffins* handout from Chapter 2, Lesson 1, found in the Appendix, complete the *Working on the Muffin Label* handout to learn how to read a nutrition facts label.

**REFLECT** (School Age)

? Ask: What does the label tell you?

? Ask: How does the label help you make food choices?

**APPLY** (School Age)

Pass out the *Label Scavenger Quest* handout and have the youth look at food labels at home to complete the questions. They should be prepared to discuss what they found at the next meeting.

### Activity 2 – CNI: Cereal Nutritional Investigation

**DO** (Middle School, Teen) ⌚ 20 minutes

This lesson focuses on comparing nutrition facts on cereal box labels. Give each youth a cereal label and have them line up in ascending order for the following nutrients/ingredients. First, have them line up based on:

- total sugar
- added sugar
- fiber,
- whole grains,
- protein,
- iron
- or other vitamins and minerals.

**APPLY** (Middle School, Teen)

Pass out the *Label Scavenger Quest* handout and have the youth look at food labels at home to complete the questions and be prepared to discuss what they found at the next meeting.

## Lesson 1: Selling or Telling

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**SUPPLIES**

Snack food label from home

**Technology Challenge**

(All Ages)

Have each youth bring a snack food label to the next meeting. Have them find out how healthy their snack is according to California Nutrition Standards using the nutritional calculator at <http://www.californiaprojectlean.org/doc.asp?id=180&parentid=95>. Follow the instructions on the page to discover the nutrient value of the snack.

**Resources**

US Food and Drug Administration, *Changes to the Nutrition Facts Label*:

<http://www.fda.gov/Food/GuidanceRegulation/GuidanceDocumentsRegulatoryInformation/LabelingNutrition/ucm385663.htm#highlights>

## Lesson 3: Media Mania

### PREPARATION

🕒 10 minutes

### SUPPLIES

Magazine ads showing popular soda or other food or restaurants.



### Outcomes (All Ages)



The purpose of this lesson is to have youth:

- Discover the impact of the media on food choices
- Identify techniques used in advertisements to encourage consumers to purchase their products
- Learn to evaluate ads for credible nutrition information
- Use advertising techniques to develop a tool to market healthy food choices
- Evaluate products based on factual information versus advertising claims

### Discussion

**DO** (All Ages) 🕒 15 minutes

Ads can exert a powerful influence on our spending and eating habits.

- The average child sees tens of thousands of television commercials a year.
- Advertisers spend billions to target the youth market because of its strong contribution to the consumer economy.
- Children 14 years and under spend millions on direct purchases, and influence billions in family purchases.

? Ask: What is a jingle? Answer: a jingle is a slogan or piece of music in advertising that helps you remember the product or service.

? Ask: What is your favorite food ad? Did a jingle or company character help you remember the product or cause you to buy it? Some possible examples: fast foods, cereals, milk, snack foods, pizza. Describe the food choices we make because of the power of ads.

Show or talk to youth about some examples of popular soda or other well-known food or restaurant advertising campaigns in magazines or on television.

? Ask: What is advertising? Why do you think companies advertise their products? Think of how many different kinds of ads bombard you daily from TV, billboards, magazines, websites, social media, radio, etc.

## Lesson 3: Media Mania

### SUPPLIES

- ❑ Assortment of magazines with food ads.
- ❑ Scissors



? Ask: Who can guess how much it cost for a 30-second ad during the Super Bowl? Answer: in the 2016 Super Bowl, an ad cost \$5 million.

### Activity 1 – Take A Look At Food Ads

**DO** (School Age) ⌚ 15 minutes

Divide the children into small groups. Provide them with an assortment of magazines and have each group cut out a food advertisement. As an alternative, the instructor can pre-select a number of food ads and let each group pick one. Discuss the following questions with the entire group.

? Ask: What is the name and type of product in your ad?

? Ask: Why did you select this ad?

? Ask: What makes this ad appeal to you?

? Ask: Does the ad describe anything about nutrition or good health?

**REFLECT** (School Age)

Help the children come to the conclusion that ads sell products. It is the responsibility of each consumer to make wise food choices. Refer back to Lesson 2 Label Lingo to review how to make wise food choices by reading food labels.

**APPLY** (School Age)

Ask the children to challenge their families by discussing what food ads they like the best and why. Do these ads influence their families' food choices? Why or why not?

### Technology Challenge

(School Age)

Have the children go to the PBSKids website:

<http://pbskids.org/dontbuyit/advertisingtricks/foodadtricks.html> and select "Advertising Tricks" at the top of the page then choose between "Design a Cereal Box" or "Create Your Own Ad."

## Lesson 3: Media Mania

### PREPARATION

🕒 10 minutes


### SET UP

Make copies of the *Advertising Sells!* handout.

### SUPPLIES

- Flipchart or blackboard
- Markers or chalk
- Pencils

### HANDOUTS & BOOKS

*Advertising Sells!*   
p. 223

### PREPARATION

🕒 10 minutes

### SUPPLIES

- Flipchart or blackboard
- Pencils
- Paper
- Tape

### Activity 2 – Advertising Sells!

**DO** (Middle School) 🕒 20 minutes



Divide youth into small groups and have them think about their favorite food advertisements. These can be ads from TV, radio, magazines, the Internet, etc. Give each youth a copy of the *Advertising Sells!* handout to complete. List the student's favorite food ads. Make a note of the selling techniques involved and which ads were for healthful foods.

? Ask: What is a jingle? Answer: A slogan or piece of music used in advertising that is very memorable. Jingles are used to help you remember the product or service.

? Ask: Can you give me an example of a jingle? Did any of the ads selected use jingles?

**REFLECT** (Middle School)

Thinking about the ads you discussed in this lesson, describe how advertising affects your food choices.

**APPLY** (Middle School)

Over the dinner table tonight, share some of the jingles discussed today and see if any influenced your family's food purchases.

### Technology Challenge

(Middle School)

Go to this PBSKids website:

<http://pbskids.org/dontbuyit/advertisingtricks/foodadtricks.html>

Click on "Buying Smart," then select "Hot or Snot" and do the activity – Did it sell?

### Activity 3 – Create An AD

**DO** (Teen) 🕒 30 minutes

Divide youth into small groups and have each group create a food ad that promotes a healthy food. Have each group present their ad. Here are some key components to consider:

- Decide which type of media you will use: television, radio, newspaper, social media or magazine.
- Describe your audience.

## Lesson 3: Media Mania

### HANDOUTS & BOOKS

*Advertising Sells* 

p. 223

- What will you use to appeal to your audience?
- How will you convey that this is a healthy food choice?



### REFLECT (Teen)

? Ask: Do you think that creating your own food ad might make you think twice before responding to an ad in the future?

### APPLY (Teen)

Post your ads around the room or in other buildings.

## Technology Challenge

(Teen)

Go to your favorite social media site and find a food or restaurant advertisement. Ask the following questions:

- What age group does the ad target?
- Does the ad make you want to eat the food? Why or why not?
- How were you influenced? Were you influenced by enticing images, testimonials or other factors?
- Do you think the ad is targeting the right audience on this site?

## Lesson 4: Eating Out

### PREPARATION

 30 minutes







### SET UP

See Set Up Details.

### SUPPLIES

- Flip board or chalkboard
- Paper
- Markers
- Empty cartons from fast food meals
- Burger King Food chart, p. 125
- See recipe for ingredients and utensils list.

### HANDOUTS & BOOKS

- How to Wash Your Hands*  p. 173
- Fast Food Calories - Line 'Em Up*  p.224
- Fast Food Photos - Line 'Em Up*  p. 225
- 10 Tips for Eating Foods Away from Home*  p. 232
- Recipe: *Toaster Oven Pizza*  p. 234
- Be Choosy In the Dining Hall*  p. 235

### Outcomes (All Ages)



The purpose of this lesson is to have youth:

- Understand that it is healthier to eat less fast food
- Calculate how much fat and calories are in a fast food meal
- Understand how to make healthy food choices at fast food and other restaurants
- Learn at least three ways to reduce fat in fast food meals
- Prepare and sample a quick, convenient and healthy recipe to use at home in place of fast foods

### Instructor Essential Information

Americans eat almost half of their meals away from home. Something that was once a special treat is becoming a way of life in our busy society. The challenge is to keep calories under control when eating out. Use the resources “10 Tips for Eating Foods Away from Home” and “Be Choosy In the Dining Hall” for strategies for discussion on how to make healthy choices. Americans consume approximately three hamburgers and four orders of French fries every week. Busy and cash-strapped families increasingly rely on take-out food for family dinners.

As people eat out more frequently in fast food restaurants or all-you-can-eat buffets, they become accustomed to super-sized portions and think that such portions are normal. The high caloric content of these large servings leads to weight gain. The resulting obesity can lead to many dangerous health problems.

### SET UP DETAILS

Before the lesson begins:

- Arrange room with seats in a semi-circle.
- Write the data from the Burger King food chart in the lesson that follows on the board or a flip chart. You can use any fast food restaurant data for this lesson if you can obtain the calorie and fat information. This type of information is usually found in a nutrition analysis chart at the restaurant or on the restaurant’s web site.
- Make a copy of the *Fast Food Calories - Line 'Em Up* chart handout to use as an answer key.
- Make one copy of the *Fast Food Photos - Line 'Em Up* in the Appendix to see pictures of food items located.
- Make copies of the *Toaster Oven Pizza*
- Make copies of *10 Tips for Eating Foods Away From Home*

## Lesson 4: Eating Out

### SET UP

See Set Up Details.

### SUPPLIES

- ❑ Flip board or chalkboard
- ❑ Paper
- ❑ Markers
- ❑ Empty cartons from Burger King, other fast food meals
- ❑ Burger King Food chart, p. 125

### HANDOUTS & BOOKS

*Serving Size Card*  p. 233

### Discussion

**DO** (All Ages) ⌚ 30 minutes

? Ask: Did anyone eat at a fast-food restaurant this past week? Raise your hand if you ate out at least once this past week. Have youth look around to see how many people have raised their hands.

? Ask: How many of you like to eat at Burger King? What is your favorite meal at Burger King? After the youth share their favorite foods from Burger King, ask the group if they have ever wondered about the calories or fat in fast food.

? Ask: Has anyone here ever eaten a Whopper, large fries, and a milkshake? To make a statement about the amount of fat and calories being consumed, show them a bag of these items from Burger King (use empty containers). Using the flip chart or the blackboard, show the amount of fat and calories that this large portion fast food meal has.

Burger King Food Item	Fat Grams	# of Calories
<b>Large Meal</b>		
Whopper	38	630
Fries	19	430
Vanilla Shake	15	580
<b>Total</b>	<b>272</b>	<b>1640</b>
<b>Small Meal</b>		
Hamburger	8	220
Fries	14	320
Fat-fat milk	0	90
<b>Total</b>	<b>22</b>	<b>630</b>



Remind youth that the recommended total caloric intake per day for most individuals is between 1600 and 2200. The large Burger King meal represents one entire day's calories.

Explain that youth will be learning how to consume less saturated fat and fewer calories at fast food restaurants by making better choices.

## Lesson 4: Eating Out



### PREPARATION

🕒 15 minutes

### SUPPLIES

- ❑ Index cards
- ❑ Scissors

### HANDOUTS & BOOKS

- ❑ *Fast Food Photos - Line 'Em Up* [A](#) p. 225
- ❑ *Fast Food Calories - Line 'Em Up* [A](#) p.224

Have them review the *Serving Size Card* handout and point out that the larger the food item, the more calories it has. To reduce their caloric intake, youth need to choose smaller sized portions from fast food restaurants.

Show them another empty carton or bag of small-sized items from Burger King, such as a regular hamburger, small fries, and a container of low-fat milk. Record the calorie and fat content from the table for the small-sized fast food meal from Burger King.

? Ask: How does the total amount of fat and calories of the small meal compare to the large fast-food meal?

? Ask: How do the total calories of the large meal compare to 1600-2200 total calories recommended per day? How about the smaller-sized meal?

### Activity 1 – Fast Food - Line 'Em Up

DO (All Ages) 🕒 20 minutes

Give each child one of the fast food pictures. Have all youth line up, arranging themselves from the highest calorie food at one end of the line to the lowest calorie food at the other, estimating the calorie content of their food. Have youth discuss whether they are in the appropriate place in line.

If you have a large group, this activity can be done by giving half the youth pictures and other half the calorie amounts. Have them partner to see if they can match calorie amount to food items and line up from highest calorie food to lowest.

Next, reveal the actual calorie count for each food using the *Fast Food Calories - Line 'Em Up* handout and have youth rearrange the line according to the real calorie counts.



? Ask: Were you surprised about any of the calorie counts for the fast food items? Which ones? Did you think they would be higher or lower?

## Lesson 4: Eating Out

### SUPPLIES

See recipe for ingredients and utensils list.

### HANDOUTS & BOOKS

- ❑ *How to Wash Your Hands*  p. 173
- ❑ Recipe: *Toaster Oven Pizzas*  p. 234

### PREPARATION


#### SET UP

Obtain copies of menus from local restaurants.

### SUPPLIES

- ❑ Copies of menus from local restaurants
- ❑ Red and green highlighters

### HANDOUTS & BOOKS

*10 Tips for Eating Foods Away from Home*  p. 232

## Now We're Cookin' – Toaster Oven Pizza

(All Ages)  45 minutes

Have youth wash their hands using proper handwashing steps. Give each child a copy of the *Toaster Oven Pizza* recipe and follow the directions to make a personal pan pizza.



## Activity 2 – Clarifying Menu Muddle

 (All Ages)  20 minutes

Discuss the *10 Tips for Eating Foods Away from Home*. Understanding these messages can help you make better choices when eating out.

Distribute menus from local restaurants. Have youth highlight the terms to avoid in red and the good choices in green.



## Technology Challenge

(School Age)

Go to [www.cdc.gov/bam/nutrition/game.html#](http://www.cdc.gov/bam/nutrition/game.html#) and play the “Dining Decision Game” to help you determine what constitutes a healthy school lunch.

## Lesson 4: Eating Out



### Technology Challenge

(Middle School • Teen)

Go to the American Heart Association website at [http://www.heart.org/HEARTORG/GettingHealthy/NutritionCenter/DiningOut/Dining-Out\\_UCM\\_304183\\_SubHomePage.jsp](http://www.heart.org/HEARTORG/GettingHealthy/NutritionCenter/DiningOut/Dining-Out_UCM_304183_SubHomePage.jsp) and find recommendations on how to choose a restaurant, decipher the menu, and eat healthy ethnic foods. Check it out!

Look again at the menus from local restaurants in Activity 2. According to the American Heart Association website, which restaurants offer healthy choices?

**APPLY** (Middle School • Teen)

Use information from the American Heart Association website to make healthier choices of what and where to eat.

### Discussion

**DO** (Teen) ⌚ 20 minutes

Introduce teens to the statistics regarding eating out; i.e., Americans eat almost half of their meals away from home and consume approximately three hamburgers and four orders of French fries every week. Busy and cash-strapped families increasingly rely on take-out food for family dinners.

As people eat out more frequently in fast food restaurants or all-you-can-eat buffets, they become accustomed to super-sized portions and think that such portions are normal. The high caloric content of these large servings leads to weight gain. The resulting obesity can lead to many dangerous health problems.

Discuss how advertisements encourage you to make food choices.

? Ask: Which food ads grab your attention? Why?

? Ask: What motivates you to select fast food?

? Ask: What are healthier alternatives to high calorie and high fat fast foods that you like? Are they advertised on television or social marketing sites?

## Lesson 4: Eating Out

### PREPARATION

🕒 5 minutes

### SUPPLIES

- ❑ Flip chart
- ❑ Paper
- ❑ Pencils
- ❑ Props for staging youth commercials

### Activity 1 – Lights, Camera, Action!

**DO** (Teen) 🕒 60 minutes

Divide youth into working groups of 3-5 teens. Have teens develop a television commercial promoting a healthy fast food restaurant. The restaurant may be fictitious or an existing restaurant or chain. Challenge each group to be creative, informative, and explicit in the types of foods they would offer at this establishment. Have each group present their commercial. Vote for the best healthy restaurant commercial!



**APPLY** (Teen)

Collect fast food nutrition charts and bring them to the next meeting to discuss what you discovered about your favorite fast food meals.

### Technology Challenge

(Teen)

Here are two sites teens can use to select and evaluate fast food meals: <http://healthchecksyste.ms.com/ffood.htm> and <http://www.calorieking.com/foods/>.

## Lesson 5: New And Unusual Foods

### Why Not Give It a Try?





#### PREPARATION

 20 minutes

#### SET UP

- ❑ Check out the website listed in Set Up Details.
- ❑ Contact the grocery store manager and arrange for a grocery store tour.

#### HANDOUTS & BOOKS

- ❑ Recipe: *Insect Infested Logs*  p. 237
- ❑ Recipe: *Savory School Paste*  p. 238
- ❑ Recipe: *Garbage Pasta Salad*  p. 239
- ❑ Recipe: *Crazy Mix Veggie Burgers*  p. 240

#### Outcomes (All Ages)

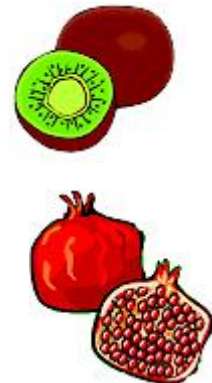


The purpose of this lesson is to have youth:

- Discover new and unusual foods via a grocery store tour
- Encourage youth to taste some unfamiliar fruits, vegetables and grains

#### Instructor Essential Information

Research shows that only a very limited number of youth are eating the recommended amounts of fruits, vegetables and whole grains each day. Many grocery stores offer tours that include learning about foods, both familiar and new varieties. Contact your local supermarket manager to schedule a tour for your group. Ideally, the tour should be done in advance of the activities and discussion in this lesson.



#### SET UP DETAILS

For the New Foods Taste Test activity, gather a variety of foods that the youth may not be familiar with such as: mango, yellow, orange or red peppers, kiwi, pineapple, star fruit (carambola), snap peas, pomegranate, fresh fennel, asparagus, sweet potatoes, whole grains such as quinoa, barley, couscous, whole grain cereals, whole wheat bread, whole wheat pitas, whole wheat tortillas, and whole wheat English muffins. Soy products are another category of foods that may be introduced. Set up tasting stations. Have the fruits, vegetables and whole grains cut and/or prepared into tasting portions.

Print a copy of the recipes so you can gather all the ingredients and supplies in advance.

- **School Age** - *Insect Infested Log*
- **Middle School** - *Savory School Paste*
- **Teen** - *Garbage Pasta Salad OR Crazy Mix Veggie Burgers*

#### Discussion

 (All Ages)  15 minutes

The best way to give your body the balanced nutrition it needs is by eating a variety of nutrient-packed foods every day. Although we all have our favorite fruits, vegetables, and grains, there are new

## Lesson 5: New And Unusual Foods

and unusual varieties of these foods available in grocery stores and at farmers' markets.

? Ask: Who likes to try new foods? What was the last new food you tried? Did you like it or not? What was the best new food you ever tried?

### PREPARATION

🕒 2 hours to gather a variety of foods.

### SET UP

See Set Up Details.

### SUPPLIES

- Cutting boards
- Knives
- Colanders
- Bowls
- Plates
- Forks
- Napkins
- Pencils
- Food for the taste tests (See Set Up Details.)

### HANDOUTS & BOOKS

*New Foods Taste Test*  
 📖 p. 236

### Activity 1 – New Foods Taste Test

📌 (All Ages) 🕒 30 minutes

Conduct a taste testing session using the new and unusual foods that you bought. Divide the youth into groups and have them circulate through the food tasting stations. Have the youth complete the *New Foods Taste Test* handout as they circulate through the food stations.



### SUPPLIES

See recipes for ingredients and utensils list.

### HANDOUTS & BOOKS

- How to Wash Your Hands* 📖 p. 173
- Recipe: *Insect Infested Logs* 📖 p. 237
- Recipe: *Savory School Paste* 📖 p. 238

### Now We're Cookin' – Recipe Round Up



(All Ages) 🕒 45 minutes

Have youth wash their hands using proper handwashing steps. Print copies of recipes for the appropriate age group and have youth prepare one or more of the dishes shown below. Recipes are in Appendix A.



- **School Age** - *Insect Infested Log*
- **Middle School** - *Savory School Paste*
- **Teen** - *Garbage Pasta Salad OR Crazy Mix Veggie Burgers*

## Lesson 5: New And Unusual Foods

- ❑ Recipe: *Garbage Pasta Salad*   
p. 239
- ❑ Recipe: *Crazy Mix Veggie Burgers*   
p. 240
- ❑ Results from *New Foods Taste Test* in Activity 1

### REFLECT (All Ages)

Review the scores the youth gave to the unusual fruits, vegetables and grains on the taste test. Have youth decide which new foods they might incorporate in their diets.

### APPLY (All Ages)

? Ask: How could you include some of these new foods into family meals? Are there any foods that you regularly eat that others may consider new or unusual?

## Technology Challenge

(All Ages)

Go to <http://www.kidnetic.com>. Select "Bright Papers," then select the article: "Totally Weird Ways to (Fruit and) Vegetable Out." Have students select one of the activities, download it, and try it at home.



## Lesson 6: It's All About Size

### Portion Distortion

#### PREPARATION

🕒 60 minutes

#### SET UP

Set up the two measuring stations.

#### SUPPLIES

- Sets of measuring cups
  - Paper plates
- A variety of foods to measure such as:
- Bread
  - Ice cream
  - Potato chips
  - Mega muffin
  - Monster cookie
  - Large bagel
  - 20-oz. bottle of soda
  - Microwave popcorn

#### Station 1

- Small bowl
- Large plate
- 6-ounce glass
- Cold cereal
- Cooked pasta
- Juice

#### Station 2

- Large bowl
- Small plate
- 12-oz. or larger glass
- Cold cereal
- Cooked pasta
- Juice

#### Outcomes (All Ages)

The purpose of this lesson is to have youth:

- Define normal versus distorted portion sizes
- Recognize how super-sized portions can contribute to overeating and weight management issues
- Recognize and choose foods of appropriate portion sizes



#### Instructor Essential Information

The rising incidence of obesity is well documented in the United States today. We know that over consumption of food and lack of physical activity are major contributing factors. Some common examples of how increased portions lead to excess calorie intake are illustrated in:

- The larger portion sizes of sodas
- Fast food super-sized portions
- All-you-can-eat buffets
- Popcorn at movie theaters



Outrageously big portion sizes can be found everywhere, and the most commonly super-sized foods are those high calorie foods that provide little nutritive value.



This lesson will focus on the difference between a portion and a serving. Think of a portion as the amount of a specific food you choose to eat at a meal or for a snack, whereas a serving is the recommended unit of measure found on the **Nutrition Facts** label. Refer to the resources for this lesson to see the recommended servings for each food group.

#### SET UP DETAILS

Set up two tables or areas and designate them as Station 1 and Station 2. Supply each station with the items shown at left. Have on hand food items that youth like such as ice cream, popcorn, chips, and cereal. Be ready to add them to the Stations for Activity 2. Choose foods with the serving size indicated on the label.

## Lesson 6: It's All About Size


### HANDOUTS & BOOKS

- ❑ *Serving Size Card*  
p. 233 
- ❑ *Portion Control: Sizing It Up!*   
p. 241

### SET UP

Set up Station 1 and 2 with supplies shown at right.

### SUPPLIES

- ❑ Sets of measuring cups
- ❑ Paper plates
- ❑ *MyPlate* poster (reverse side has serving information) 

### Discussion

 (School Age) ⌚ 20 minutes

**? Ask:** What is the difference between a portion and a serving?

**Answer:** A portion is the amount of a specific food you choose to eat at a meal or for a snack. A serving is the unit of measure used to describe the amount of food recommended from each food group. Use the *Serving Size Card* handout to illustrate recommended serving sizes.

Discuss the *Serving Size Card* and the *Portion Control: Sizing It Up* handout.

**? Ask:** Do you see a difference between the recommended serving sizes and what you eat at home or when dining out? Are the recommendations larger or smaller than your normal portions?

### Activity 1 – You Do The Measuring

 (All Ages) ⌚ 30 minutes

Divide youth into two groups. Have Group 1 begin at Station 1, and Group 2 at Station 2. Have them fill the containers and measure the amounts they used for a portion of each of the three foods (cold cereal, pasta and juice). Discuss what constitutes a serving of cereal, pasta and juice according to the MyPlate recommendations.

Station 1	Station 2
<ul style="list-style-type: none"> <li>❑ Small bowl</li> <li>❑ Large plate</li> <li>❑ 6-ounce glass</li> <li>❑ Cold cereal</li> <li>❑ Cooked pasta</li> <li>❑ Juice</li> </ul>	<ul style="list-style-type: none"> <li>❑ Large bowl</li> <li>❑ Small plate</li> <li>❑ 12-oz. or larger glass</li> <li>❑ Cold cereal</li> <li>❑ Cooked pasta</li> <li>❑ Juice</li> </ul>

## Lesson 6: It's All About Size

### PREPARATION

🕒 20 minutes

### SET UP

Set up the Station 1 and Station 2 with food measuring stations with foods youth like. See Set Up Details.

### SUPPLIES

- Sets of measuring cups
- Paper plates
- Pencils
- Food items such as ice cream, popcorn, chips, and cereal. Choose foods with serving size indicated on the label.

### HANDOUTS & BOOKS

*A Measured Serving*  
 A p. 242

### Activity 2 – Looks Like A Serving To Me!

DO (Middle School • Teen) 🕒 20 minutes

Provide numerous food items for the youth to measure at each of the stations. Give each youth a copy of the *A Measured Serving* handout. Tell them to move from Station 1 to Station 2 and take an amount that represents their “normal” portion of that food. Have them measure the amount they took. Then, have youth read the label on the food container and write down the amount in one serving. Answer the questions on the handout.



### HANDOUTS & BOOKS

*Serving Size Card* A  
 p. 233

### Technology Challenge

(All Ages)

Go to the National Heart, Lung, and Blood Institute (NHLBI) website at: <http://www.nhlbi.nih.gov/health/educational/wecan/eat-right/portion-distortion.htm> and click on “Portion Distortion II” Slide Show.” Begin the slide show and quiz yourself to see if you know how today’s portions compare with those from 20 years ago.

### PREPARATION

🕒 30 minutes

### SET UP

Have food items ready for students when they come to the lab.

### Activity 3 – Portion Scavenger Hunt

DO (Teen) 🕒 60 minutes


Youth will participate in a Portion Scavenger Hunt. This takes place in several locations and will require a field trip to the computer lab, a fast food restaurant, and a convenience store.

## Lesson 6: It's All About Size

### SUPPLIES

- Computer paper
- Pencils

### HANDOUTS & BOOKS

*Task Sheets for the Portion Scavenger Hunt*  p. 243

The Task Sheets for the Portion Scavenger Hunt can be found in Appendix A. They are adapted from an activity from the University of Idaho, Montana State University and the University of Wyoming Extension Services.

Have youth select partners and each team can use a different Task Sheet. The sheets are in PDF format and include:

- Activity Instructions
- Task Sheet for Candy Bar
- Task Sheet for Chips
- Task Sheet for Cookie
- Task Sheet for Fries
- Task Sheet for Muffin
- Task Sheet for Soda Pop
- Task Sheet for Popcorn



Youth will be directed to go to a fast food restaurant and a convenience store with a task sheet for candy bar, chips, cookie, fries, muffin, soda pop, or popcorn.

### REFLECT (Teen)

At the next meeting, have youth report on what they discovered about their food product.

### APPLY (Teen)

Ask teens to report one finding to a friend or family member.

### Resources

- *Handy Portions*, from Learning Zone Xpress is available as a handout (in bulk in tablet form, or as a poster). Call 1-888-455-7003 <http://www.learningzonexpress.com>.
- Reproduce the slides from one of the two Portion Distortion Slide shows with portion recommendations for each food group are available at: <http://www.nhlbi.nih.gov/health/educational/wecan/eat-right/portion-distortion.htm>



# Chapter 4 Activity for Life

## Introduction

Chapter four teaches youth how to create a healthier lifestyle and to collaborate with friends, family, and community while doing so. Youth will learn how to organize a walking club, a wellness event, and participate in games that challenge them to be physically active. This chapter illustrates how easy it is to stay physically active using simple equipment such as jump ropes, Frisbees, or no equipment at all. The activities also incorporate team building and cooperation.

Chapter four is also a review of some basic nutrition and fitness concepts from earlier chapters. This chapter culminates in having youth plan and carry out an actual wellness event for their club, community, youth center, or base.

## Lesson Summary

- |  |         |
|--|---------|
| 1. Walk Your Way to Fitness                    | Fitness |
| 2. Let's Play Outside: Everyday Fun Activities | Fitness |
| 3. Jump Into Fitness                           | Fitness |
| 4. Cooperative Play                            | Fitness |
| 5. Planning a Wellness Event                   | Fitness |

## Lesson 1: Walk Your Way To Fitness



### Outcomes (All Ages)

The purpose of this lesson is to have youth:

- Learn about the importance of social support in making healthy lifestyle changes
- Understand the health benefits of walking
- Learn how to create a walking club
- Practice using a pedometer
- Participate in a walking activity

### Discussion

**DO** (All Ages) ⌚ 10 minutes

? Ask: Has anyone ever had to learn a new and difficult skill such as riding a bike, solving a math problem, learning a sport, or learning how to cook?

? Ask: Has anyone ever tried to stop a bad habit such as biting your nails, eating too many sweets, or leaving your clothes on the floor? Would someone share an experience?

? Ask: Did you have help? Or, were you able to change your behavior on your own? What did the supporter do that helped you?

Explain to the youth that people learn in different ways. Some individuals learn more easily by themselves while others learn better if they have a buddy or someone to support them while they are practicing and learning the new skill. Friends or family can be good partners and supporters when a task seems difficult. This is particularly true when you are trying to start a healthy habit, like starting a walking program or eating less junk food. A friend who also wants to make a positive change in their life can offer moral support when your own commitment might be faltering. A friend can encourage you to get out and play when you might be feeling a little lazy.

? Ask: Why is walking a good way to get exercise? Answers: it's easy, you can walk almost anywhere, it doesn't take any special equipment except a good pair of sneakers, you can do two things at once such as walk and shop, walk and visit with your friends, walk the dog.

Emphasize that walking helps people manage their weight and makes them feel and look better. Exercise in general, including walking, has been linked to reduced risk for heart disease, high

### PREPARATION

⌚ 5 minutes

### SET UP

Set up easel or use walls to hang self-stick paper.

### SUPPLIES

Easel and markers



## Lesson 1: Walk Your Way To Fitness



blood pressure, diabetes, osteoporosis, and some forms of cancer.

**? Ask:** If you were successful at learning the new skill or behavior why do you think that was so? Allow time for youth to discuss what other suggestions they have about how to be successful at making healthy lifestyle changes.

Explain that the best way for a behavior to become a daily habit is by taking it “one step at a time” i.e. setting small measurable goals. Sometimes when people want to add a new healthier behavior in their lives, such as increasing their daily activity, they set big, unrealistic goals, which can cause them to feel frustrated when they can’t meet them. Tell youth that it is much easier to set a series of small goals, which can be easily accomplished before moving on to tougher ones.

For example, sometimes people who want to lose weight give up their favorite foods (such as ice cream) altogether instead of eating smaller portions of these foods less frequently. They usually aren’t able to stick to such a strict diet because they miss the food they like so much. They end up not feeling good about themselves and go back to the same eating patterns. A better choice might be to eat more healthfully by increasing fruit and vegetable consumption, limiting soda, and taking smaller portions of the ice cream.

**? Ask:** Can you think of ways to increase how much you walk? Tell youth that there are many ways to increase daily steps. Have them use their imaginations to come up with their own list. Write their ideas on an easel. Examples: take a walk with a friend, walk the dog, use stairs instead of an elevator, walk to school or the store, start a walking club, walk over to visit a friend or relative, walk around the garden.

### Activity 1 – Walking With A Pedometer

**DO** (All Ages) ⌚ 20-45 minutes

#### SUPPLIES

Pedometers for each participant

Ask youth to form groups of two to four. Give each youth a pedometer. Tell them to push the “reset” button. Tell everyone that before beginning, their pedometer should read “0.”

Show youth the correct technique to attach the pedometer to their waistband or belt. It should be positioned midway between their hip and belly button, right above the knee.

Tell the youth that they are going to walk with their pedometers for 15 minutes without stopping to see how many steps they take

## Lesson 1: Walk Your Way To Fitness

during that time. Remind them that the faster they walk, the more steps they will attain. Have youth walk around the room, outside, up and down the halls, or wherever they can walk continuously for a 15-minute period.

Emphasize that sometimes when you are very busy with school and other activities, you might only have time for a quick 10-15 minute walk, but any walking is beneficial. Combining several smaller walks with some other activities can add up to the recommended 60 minutes of daily moderate activity (or 10,000 steps) that all young people should have.

Reassemble the group after 15 minutes and have everyone remove their pedometers. Discuss how many steps their pedometers registered during the 15-minute period.

Tell the youth that depending upon their age and height, approximately 2,000 steps = 1 mile. If time permits, ask everyone to reset their pedometers to zero and walk around the area until their pedometers register 2,000 steps.

(Teen)

Explain to the youth that research shows that people who walk 10,000 steps per day can achieve the positive health benefits outlined earlier. Most Americans, including teenagers, do not walk 10,000 steps a day. In fact, they only walk about 2,000 steps. One way to track your steps is to use a pedometer to see how far you are walking.


**Instructor Note:** If pedometers are not available, approximate the distance by using the formula: 20 minutes of walking = 1 mile.

## Lesson 1: Walk Your Way To Fitness

### SUPPLIES

Pencils

### HANDOUTS & BOOKS

*Goal Setting Worksheet – School Age Youth*  p. 252



### Activity 2 – Goal Setting

 (School Age)  20-30 minutes

To illustrate the difference between setting realistic and unrealistic goals, read the following story to the children:

#### **Scenario:**

Natasha Jones is 10 years old. Her mother and father think she is spending too much time watching television and not enough time actively playing. Her parents have decided that her daily screen time will be limited to one hour and that she must make an effort to get outside and “play” more. Natasha decided that she would like to play on a recreational soccer team that practices in her neighborhood. After watching the team practice, Natasha believes that she might be too “out of shape” to play the game and will be embarrassed if she tries. Natasha wants to be able to run as far and as long as the other children on the team. She has decided she is going to get in better shape by running two miles every day after school.

? Ask: Do you think Natasha has set a realistic goal for increasing her activity level? Why or why not?

? Ask: Can you suggest another goal for Natasha?

? Ask: What other recreational activities would you suggest for Natasha if she decides not to join the soccer team?


? Ask: Would Natasha be more likely to enjoy her new activities if some friends join her?

Pass out pencils and the *Goals Setting Worksheet – School Age Youth* handout. Ask for volunteers to share their answers. Discuss whether the goals are realistic. Why or why not?

### SUPPLIES

Pencils

### HANDOUTS & BOOKS

*Goal Setting Worksheet – Middle School And Teen*  p. 253

### Activity 3 – Goal Setting

 (Middle School • Teen)  20-30 minutes

To further illustrate the difference between setting realistic and unrealistic goals, read the following story to youth.

## Lesson 1: Walk Your Way To Fitness



### Scenario:

James Duncan is a 14-year-old high school freshman. He has tried out for the wrestling team but needs to lose 10 pounds to "make his weight." One of his friends suggested that he skip breakfast and lunch for a few days, and just eat a protein bar and salad for dinner. His friend also recommended that James limit his fluid intake for the next several days. James has one week to lose the weight.

? Ask: Do you think James' goal of losing 10 pounds in four days is realistic? Why or why not?

? Ask: Do you think James will make his weight? Why or why not?

? Ask: What are some factors that might affect James' performance if he wrestles for the high school wrestling team after several days on this diet?

? Ask: What would you recommend as an alternative strategy for James to make his weight goal? Possible answers: increase exercise, fruits, vegetables, and whole grains; eliminate sauces, choose grilled meats.

Pass out pencils and the handout: *Goals Setting Worksheet – Middle School and Teen*. Have youth take a few minutes to answer the questions. Ask for volunteers to share their answers. Discuss whether the goals are realistic goals. Why or why not?

### Activity 4 – Walking Club

**DO** (All Ages) ⌚ 30 minutes

Discuss with youth the idea of setting up a walking club in their neighborhood. If youth are interested, have them work as a group to develop two to three goals for the walking club. Write their goals on a large piece of paper and post them in a place where the youth will see them on a daily basis.




Here are some sample goals for the "Space Walkers" walking club:

- Space Walkers will meet at least twice a week for the first four weeks.
- Space Walkers will get sponsors for each mile walked to support a local charity.

#### SUPPLIES

- ❑ Flip chart or large piece of paper
- ❑ Tape
- ❑ Markers
- ❑ Pencils

#### HANDOUTS & BOOKS

*Progressive Walking Marathon Log Sheet*   
p. 254

## Lesson 1: Walk Your Way To Fitness

- Space Walkers will sponsor a walk-a-thon to raise money for a celebration.

? Ask: Are the Space Walkers' goals realistic? Why or why not?

? Ask: Do the Space Walkers have goals in which everyone can experience success?

? Ask: Can you think of any obstacles the Space Walkers might need to overcome for the group to be a success?

**Instructor's Note:** One possible activity for the walking club might be to try and complete a walking marathon, which is 26.2 miles. The total miles can be completed over a 14-week period. For very young children, consider a parent-sponsored 5-mile walk-a-thon. Refer to the *Progressive Walking Marathon Log* handout for suggested weekly mileage amounts. Discuss how many times per week the youth will walk and if they might combine walking with other activities.

### REFLECT (All Ages)

? Ask: Without telling us the name of the person, or where they live, do you know anyone who has ever successfully stopped a difficult behavior such as smoking or overeating? Were they successful on the first try? How did this person's family and/or friends help them or make it more difficult for them?

### APPLY (All Ages)

Ask youth to track their daily steps on a pedometer if they have one. If they don't have a pedometer, have them estimate their daily mileage based on the formula that one city block is approximately equal to 1/10 of a mile (10 blocks = 1 mile). Or use the formula: 20 minutes = 1 mile. Have youth think about a realistic goal for increasing their steps or mileage. Have youth list three to five routine tasks in which they could increase their steps by making small changes.

## Technology Challenge

(All Ages)

You don't have to walk to increase your steps! Visit <http://www.kidnetic.com> and click "Move" and then again on "Move Mixer." The Move Mixer Dance Creation Tool lets you design your own dance with music and then dance along. Have fun combining several dance steps and impress your friends with your new dance "moves."



## Lesson 2: Let's Play Outside

### Everyday Fun Activities

#### PREPARATION

🕒 5 minutes

#### SET UP

- ❑ Set out an assortment of play equipment that might be available at home such as balls, jump ropes and hula-hoops
- ❑ Identify and label 10 Frisbee "golf holes"

#### SUPPLIES

- ❑ Play equipment (see Set Up)
- ❑ Two large hula-hoops
- ❑ 4-5 Frisbees
- ❑ Marker and paper to label Frisbee golf holes
- ❑ Paper
- ❑ Pencils

#### Outcomes (All Ages)



The purpose of this lesson is to have youth:

- Learn that playing actively is an important part of staying healthy
- Recognize that screen time should be limited to less than two hours each day
- Design a group play activity where all members of the group have active roles
- Participate in active, easy, games

#### Discussion

**DO** (All Ages) 🕒 10 minutes

? Ask: Who is willing to share good memories of a time when they were playing outside with friends and/or family? What makes it a good memory? What activities were you doing? Examples: a family picnic in the park, a neighborhood game of kickball or softball, playing football or soccer with your family members, riding bikes through the neighborhood.

Actively playing with friends and family can help keep you healthy and strong. Many youth spend too much time indoors playing video games or watching television and don't get the recommended one hour of moderate physical activity every day.

? Ask: How do you spend your free time after school and on the weekends? Do you play video or computer games? Is your free time spent with friends? Do you watch much television? Do you play outside?

More than two hours per day of screen time for children and teens can be associated with poor health. Remind youth that bodies of all ages need at least 60 minutes of moderate physical activity each day to remain healthy. One of the best ways to achieve this goal is to limit time spent in front of computers, video games, and television and go outside and play!



## Lesson 1: Walk Your Way To Fitness

### PREPARATION

🕒 5 minutes

### SET UP

Set out an assortment of play equipment

### SUPPLIES

- Play equipment that might be available at home such as balls, jump ropes, hula-hoops, Frisbees, etc. (see Set Up)
- Paper
- Pencils
- Markers

### PREPARATION

🕒 5 minutes

### SET UP

- The best place for this activity is in a gymnasium or outside
- Set out an assortment of play equipment
- Identify and label 10 Frisbee "golf holes"

### SUPPLIES

- 4-5 Frisbees
- Marker and paper to label Frisbee golf holes

### Activity 1 – The Use-Your-Imagination Game

**DO** (All Ages) 🕒 30 minutes

Divide the youth into groups of four to six. Tell them that they are going to become inventors and create a game. Have each group pick at least three pieces of play equipment from the choices available. Instruct each group to spend five to seven minutes designing a game. Ask them to give their game a fun name. There are only three rules:

- Each game should last at least 10 minutes.
- Each member of the group should be an active participant.
- The three pieces of equipment must be incorporated into the game.

Allow each group a few minutes to practice their activity. After this, have each group tell the name of their game, provide a demonstration, and teach it to the whole group. If there is time, let all the youth try out all of the games.

### Activity 2 – Frisbee Golf

**DO** (All Ages) 🕒 30 minutes

Identify 10 "holes" that will make up your Frisbee golf course. A "hole" can be a piece of paper with a number on it, a chair, a tree, a spot on the wall or whatever you choose. Label each hole from 1 to 10. Decide the par (points given) for each hole. To simplify the game, you may make all holes be a standard 3 par, or, the par may change depending upon the difficulty of the throws.

Divide youth evenly into teams. Designate a scorekeeper for each team and give him/her a paper and pencil to keep score for each member of their team. The object of the game is to hit the holes with the Frisbee. The throw for the first hole is taken from a designated starting spot. Subsequent throws are taken from each subsequent hole. For example, a youth would stand at Hole 2 to throw to Hole 3. The winner is the individual or team with the lowest score, which will be the fewest overall throws used to hit their holes (targets).


This game can be played as a competition between teams or among the youth on each team. If you have a large group, start half of the teams at Hole 1 and the other half at Hole 6 so that youth are not waiting too long for their turns.

## Lesson 1: Walk Your Way To Fitness

### SUPPLIES

Two large hula-hoops

### HANDOUTS & BOOKS

*We Can! Screen Time Chart*  p. 255



Stress to the youth that the form they use to throw the Frisbee is not important; the goal is hitting the target. Whatever method of throwing that gets the Frisbee to the target is acceptable. This way, those youth who are not skilled at Frisbee throwing will feel less intimidated. It also adds a fun factor to the game because some unskilled youth will be successful using unusual throwing methods to hit the holes.

### Activity 3 – Pass the Hula-Hoop

**DO** (All Ages) ⌚ 15 minutes

Have youth line up holding hands with the person next to them. This can be done (and is more fun) with two lines of youth lined up and facing each other. Start at one end and put the hula-hoop over the head of the first youth. Have that youth wiggle the hula-hoop any way possible to the next person, and so on down the line. The hula-hoop can be passed over their heads, under their legs, and across linked arms, but youth must keep their arms linked. Once the hula-hoop gets to the end, have them pass it back to the beginning in the same way.

**REFLECT** (School Age)

? Ask: What kinds of physical activities do you think your grandparents did when they were your age?

**REFLECT** (Middle School • Teen)

? Ask: Would you say that your generation is generally healthier or unhealthy than your parents' generation? Why?

**APPLY** (All Ages)

Ask youth to keep a log of their screen time for one week (TV, texting, computer, video games). Use the NIH Parent Tip – *We Can! Screen Time Chart* in Appendix A. Ask them to try and replace some of that time with active play and/or sports. Have them report back on their successes.

## Lesson 1: Walk Your Way To Fitness

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### Technology Challenge (All Ages)

Have youth create a list of all the fun activities, games, sports, and events that they can do after school and weekends - both inside and outside. Use a search engine such as Google <http://www.google.com> or Yahoo <http://www.yahoo.com> to find this type of activity. Make sure they include the instructions for the activity in their list. The inside list should include active games or activities that can be done inside. The outside games should involve lots of movement across a large space and require minimal equipment.

**Hint:** Physical education sites work well for this search and include many already-planned fun activities for groups and individuals.

## Lesson 3: Jump Into Fitness

### PREPARATION

🕒 5 minutes



### SET UP

See Set Up Details.

### SUPPLIES

- ☐ One jump rope for each child

### HANDOUTS & BOOKS

- ☐ *Heart Rate Log*  p. 175
- ☐ *Heart Rate Chart* 



### Outcomes (All Ages)



The purpose of this lesson is to have youth:

- Learn games while developing basic jump roping skills
- Understand the cardiovascular and muscle-building benefits of jumping rope and how it can fit into a total fitness plan
- Learn the basics of single rope jumping and double rope jumping
- Learn about rope jumping team activities offered through competitive Double Dutch programs for youth
- Understand how jumping rope can contribute to improved balance and greater strength

### Instructor Essential Information

The duration and intensity of the exercises in this lesson may need to be adjusted to accommodate different fitness levels of the youth. The instructor should always provide water breaks during these activities. The breaks should be more frequent in warm weather.

Jumping rope is a fun, inexpensive way to improve cardiovascular health and build muscle. Youth and adults of all ages can benefit, whether they do basic two-foot jumping, rope skipping, or any of the many intricate variations that have been developed for single and double rope jumping.

More information about Jumping Rope and videos can be found at <http://www.usajrf.org>. USA Jump Rope. Click on the Visitor tab. You may be especially interested in Double Dutch Jumping. You can find information at: <http://www.nationaldoubledutchleague.com/index.html>

This lesson builds on the jumping rope activities found in *Chapter 1, Lesson 4: In Beat - The Heartbeat*, p. 30. Refer back to that lesson to help youth calculate their heart rates before they begin this lesson. If there are youth who are very proficient rope jumpers, you may look up more advanced steps and routines for them to try at any of the many online sites.

### SET UP DETAILS

The best place for the jump rope activity is a large room with a dry smooth floor made of wood, tile, or matted material. A smooth outdoor surface can be used. Each youth will need a jump rope. The proper rope length for each youth can be determined by having them stand in the center of the rope and checking to see if the handles reach up to their armpits.

## Lesson 3: Jump Into Fitness

### PREPARATION

🕒 5 minutes



### SET UP

See Set Up Details.

### SUPPLIES

- ❑ Clock or wrist watch
- ❑ One jump rope for each child
- ❑ Enough longer jump ropes to have 1 for every 3 youth. Length of rope: 16'
- ❑ A variety of music: upbeat, and relaxing

### HANDOUTS & BOOKS

- ❑ *Heart Rate Log*  p. 175
- ❑ *Heart Rate Chart* 

### Discussion

 (All Ages) 🕒 45 minutes

Review the warm up exercises and jump rope skills youth learned in the lessons in *Chapter 1, Lesson 4: In Beat - The Heartbeat*. Go over the method of taking a heart rate on page 31. If they have not done this lesson, it would be good to introduce youth to the information in it as an orientation to this lesson.

Ask for a youth to volunteer to be the leader and begin to play slow relaxing music. Ask youth to follow the leader in warm up exercises starting with slow music and marching. Change the music to a more upbeat tempo. Divide youth into groups of 6-8 members. Give each team one of the 16' ropes. Youth will take turns being the rope holders.

### Activity 1 – Learning The Ropes

 (All Ages) 🕒 30 minutes

Have youth lay their rope flat on the floor and then line up next to it. Have them jump with feet together back and forth across the rope at least five times.

Next, have two youth become rope holders as they hold the ends of the rope and move it "like a snake." The other youth jump across the rope, one by one, without touching it. They continue jumping over it, making a large circle as they jog around for their next turn. Repeat until each youth jumps "the snake" at least five times.

The rope holders raise the rope about 6 inches above the floor and youth jump back and forth across the rope at least five times. Next, rope holders again wiggle the rope "like a snake" up and down and back and forth, while youth jump across it without touching it in the same pattern as they followed in the previous exercise.

The rope holders lay two ropes on the floor or ground parallel to each other about six inches apart. Each youth jumps across the "river." The rope holders increase the distance between the ropes by three inches on each subsequent jump until no one can jump the "river." Youth can use any style of jumping they choose at this point to get over the river.



Using one of the longer ropes, have the jumpers form one line perpendicular to the rope. The rope turners begin to turn the rope - first one loop towards the line of jumpers, then one time away from the jumpers. The jumpers do not jump the rope; they just run

## Lesson 3: Jump Into Fitness

### SUPPLIES

- ❑ Clock or wrist watch
- ❑ Pencils
- ❑ One jump rope for each child
- ❑ Longer jump ropes: 16' supply 1 for every 3 youth.
- ❑ A variety of music: upbeat, and relaxing

### HANDOUTS & BOOKS

- ❑ *Heart Rate Log*  p. 175
- ❑ *Heart Rate Chart* 

under it. As the rope is reversed, they come back under it while never letting the rope touch them. This can be done in groups. For example, while one jumper is going under and back again, another jumper jumps in and they go under and back again together. Continue adding another jumper with each pass. The game ends when a miss, or a touch of the rope, occurs. Then, the entire group goes to the end of the line, and the one at the front of the line begins the game again.

### Activity 2 – Team Jumping

 (All Ages)  20-30 minutes

Divide group into teams of three and give each team a 16' rope. Members of the team practice turning the rope at different speeds, touching the floor or ground each time and creating a full arc with the rope. All three members should participate in this.

After they can all turn the rope smoothly, one youth stands next to the rope and the other 2 begin to turn. Turners say "Jump!" when the rope nears the floor. Each jumper continues until he or she can jump at least three consecutive jumps. Then they jump out. Team members switch positions until all youth have reached the goal. If teams finish early, they can continue to jump, setting their own targets, until all youth in the class have reached the goal.

Next, distribute the short ropes to each youth for individual jumping. Have them jump for one minute then rest.

Have youth calculate their heart rates and record them on the *Heart Rate Log* as they learned to do in *Chapter 1, Lesson 4: In Beat – The Heartbeat*.

Next, for those who want to try, challenge youth to jump for up to two minutes without stopping. Have youth jump for five sets of either:

- One minute of jumping, one minute rest, OR
- Two minutes of jumping, two minutes rest

Youth should check their heart rate after each set.



## Lesson 3: Jump Into Fitness

### SUPPLIES

Longer jump ropes:  
16' supply 1 for every  
3 youth.

### Activity 3 - Follow the Leader Game

**DO** (School Age Middle School • Teen) ⌚ 20 minutes

Bring small groups back together into one group. Youth will take turns being the rope holders. Using one 16' rope, have the jumpers form a line perpendicular to the rope. Have each youth jump into the turning rope, jump several times, and then jump out. When everyone has had a turn, teach youth the following game.

Jumpers form one line to enter the rope near one of the turners. The first youth jumps into the rope, jumps once, and exits on the diagonal going around the turner to form a new line. As the first jumper is exiting the rope, the next jumper in line enters and jumps the rope once in a "follow the leader" fashion, taking his/her place behind the leader after jumping out. This continues until all the jumpers are in the new line. As the last jumper exits the rope, the first jumper enters the rope again and repeats the process, making a figure 8.

As youth become skilled in this exercise, the leader should begin to add motions during their jump. This might be a clap of the hands, putting hands on hips, jumping on one foot, crossing arms over chest, or whatever else they would like to try. Be sure that the moves the leaders are making are not too difficult for the participants.

This game can be played non-competitively or competitively as an elimination game, depending on the skill level and interests of the youth. If you choose to eliminate youth for missing their turn or not following the leader, be sure that you have single ropes available for those youth to practice jumping while the Follow the Leader game continues. You also could go onto the Double Dutch activity and let those who are out of Follow the Leader begin learning how to jump with two ropes.

If you want the game to be competitive, set a goal to see who can last the longest while following the leader. They have to jump in and out each time it's their turn. As the line gets shorter from eliminations, rope holders may turn faster. If the leader is eliminated, the next person in line takes over as the new leader. The last three youth still jumping are the winners. Remember, each turn of the rope must have a jumper jumping in, jumping one time, and exiting while the next jumper jumps in. This is a great game for older School Age children and Middle School youth.

## Lesson 3: Jump Into Fitness

### SUPPLIES

Longer jump ropes:  
16' supply 1 for every  
3 youth.



### SUPPLIES

- Pencils
- Paper
- One jump rope for each child
- Longer jump ropes: 16' supply 1 for every 3 youth.

### Activity 4 – Double Dutch

**DO** (School Age Middle School • Teen) ⌚ 15-20 minutes

After youth have finished the game, divide them into groups of three. Give each group two long ropes. Ask them to practice turning the ropes in towards the other. This type of rope turning is called Double Dutch. Be sure that all three youth master this skill.

**? Ask:** What is different when you are jumping with two ropes compared to one rope? Possible answers: some side-to-side motion, tempo increases, feet can jump separately or together.

Select teams of three and have one youth stand in between the two ropes. Turners begin to turn the ropes, saying "Jump." After each youth has successfully jumped at least four jumps with two ropes, let the youth choose whether they wish to continue with two ropes or go back to one. The jumper can also jump into moving ropes rather than starting to jump when the ropes are still. This will help the turners and the jumper to understand the motion and rhythm of the ropes.

### Activity 5 - Jump Into Fitness

**DO** (Middle School Teen) ⌚ 20-25 minutes

Each team will create a fitness routine for a selected audience using the jump ropes. Youth will:

- **Select a target audience** such as athlete, gymnast, wrestler, baseball player, soccer player, etc. The target audience could also be someone who is not very active (a couch potato) or whomever else they choose.
- **Develop a jump rope plan** that would be beneficial to that audience. Ask youth to consider what they have learned in previous lessons, and what they know about jumping and its benefits. Consider a program that improves endurance, strength, and balance for the audience selected.

This exercise has no right or wrong answers, but common sense should prevail. For example, a gymnast might have a program that includes jumping on one foot or doing deep knee bends while jumping or turning around while in the rope. A soccer player might work up to 10-15 minutes of straight jumping over a course of several weeks. A beginner might start with simple jumping for 30



## Lesson 3: Jump Into Fitness

### SUPPLIES

Relaxing music



seconds, then have 30 seconds rest. They might increase their jumping time over several sessions.

Each group will report back on their fitness plan and demonstrate their program. Each member of the team should participate.

### Activity 6 – Cool Down

**DO** (All Ages) ⌚ 5-10 minutes

Put on relaxing music. Have youth do the following cool down exercises. Remind the youth that they need to cool down their muscles after strenuous activities to help their bodies return to a resting condition.

Have youth first stretch one arm to the ceiling, reaching higher and higher. Have them raise their other arm to the ceiling stretching upward. Have them stretch both arms, lifting them higher and higher, and holding the stretch for at least 15 seconds.

Tell youth to sit on the floor with their legs stretched forward and their backs straight. Have them reach toward their feet, keeping their backs straight and their heads in line with their spine. Hold this stretch for at least 15 seconds.

Next have youth lie on their backs and stretch their arms overhead. Have them hold this stretch for at least 15 seconds.

**REFLECT** (All Ages)


? Ask: What do you think makes rope jumping an especially good aerobic (heart healthy) exercise? What makes it a muscle-building exercise? Examples:

- Jump rope requires you to breath faster and more deeply as you get tired, thus the heart works harder
- Each time you hit the ground, you are putting the full weight of your body onto your leg muscles
- Each time you jump up you are using muscles to lift up your weight
- The heart is a muscle
- Over time, bones are made stronger when legs make impact with the ground

? Ask: Do you think “Double Dutch” jumping is more or less

## Lesson 3: Jump Into Fitness


### HANDOUTS & BOOKS

*Heart Rate Log*   
p. 175

### SUPPLIES

- Paper
- Pencils

### HANDOUTS & BOOKS

*Heart Rate Log*   
p. 175

strenuous than single jump roping? Why or why not?

#### APPLY (All Ages)

Youth should jump rope at least four days per week until the next lesson. For each rope jumping set, they should record their resting heartbeat and then calculate their heart rate after jumping. Remind them to do their warm up and cool down exercises. Ask youth to bring their *Heart Rate Logs* to the next class.

#### REFLECT (Teen)

? Ask: Can you think of some benefits of jumping rope that might not be obvious? Examples:

- Increases your ability to concentrate
- Develops a sense of rhythm and timing
- Helps with balance and coordination
- Doesn't cost much money
- Can be done anywhere and you can carry your rope with you
- Can be done alone or with others

#### APPLY (Teen)

Each teen should create a jump rope fitness plan for themselves before the next session based on their own needs and level of fitness. The plan should include jumping at least four days per week. Ask youth to bring their heart rate logs to the next session.

## Technology Challenge

(Teen)

Have youth visit the web sites listed below to find new games and activities.

### RESOURCES

- Rope games <http://42explore.com/rope.htm>
- Visit <http://www.heart.org>. Click on "Educator" then on "School Programs" to learn about the national events sponsored by the American Heart Association to help students improve their own health and to help other kids with heart health issues.

## Lesson 4: Cooperative Play



### Outcomes (School Age)

The purpose of this lesson is to have the children:

- Develop listening skills
- Participate in a cooperative activity
- Develop team building skills

### Discussion

**DO** (School Age) ⌚ 15-20 minutes

? Ask: Do you know what team building means? Answer: team building is when you participate in activities as a group to help you learn how to work together to solve problems.

? Ask: Do you know how to develop team building skills? Possible answers: through games, physical activities, group activities, conversation and listening.

You will encounter many different kinds of people throughout your life. It is important that you learn to work cooperatively with others. Part of working cooperatively is having good listening skills.

Have the children stand in a circle. Whisper a simple message into the ear of one child. Have that child then whisper the message to the next child in the circle. That child then whispers the message to the next child, and so on. Have the last child reveal the message. Discuss what happened if the original message was not the same as the message the last person received.

? Ask: How might a mistake in passing the messages affect teamwork?

### Activity 1 – Trust Me

**DO** (School Age) ⌚ 20-25 minutes

The object of the Trust Me game is to have blindfolded children make their way through an obstacle course with only verbal directions from their partner.

Draw, or have the children draw, a large (20' X 40') outline of a rectangle with tape or chalk. This rectangle becomes the obstacle course.

Ask the children to set up obstacles inside the course. The obstacle can be 30-50 small soft objects such as beanbags, food models,



#### PREPARATION

⌚ 5 minutes

#### SET UP

Use tape or chalk to mark the rectangle

#### SUPPLIES

- ❑ Measuring tape
- ❑ 30-50 small items that can be used

## Lesson 4: Cooperative Play

as obstacles  
beanbags, food  
models, rolled up  
socks, etc.

- ❑ Tape or chalk
- ❑ Blindfolds



rolled up socks, etc. Make sure they are soft enough so there are no injuries. You may assign each child the task of bringing two soft items to the program or class.

Have the children divide into pairs and stand at opposite ends of the rectangle. One partner in each pair is blindfolded, while the other partner gives directions.

The child giving directions calls out simple verbal instructions to the blindfolded partner, guiding him or her through the course. If the blindfolded partner touches an obstacle, he or she is out of the game.

Repeat this activity allowing the other partner to be blindfolded and guided through the course.

### REFLECT (School Age)

? Ask: How well did your partner follow directions? How well did your partner give directions?

? Ask: Did you feel more frustrated as the blindfolded partner or the partner giving directions?

### APPLY (School Age)

Have the children brainstorm to generate a list of things they could do to become better listeners, communicators, and team players.

Allow the children to repeat the activity with a new partner and apply some of these new ideas.

## Lesson 4: Cooperative Play



### Outcomes (Middle School • Teen)

The purpose of this lesson is to have youth:

- Participate in a cooperative activity
- Develop problem-solving skills

### Discussion

**DO** (Middle School • Teen) ⌚ 15-20 minutes

? Ask: Can you name some ways to build physical skills? Some examples might include running, playing basketball, swimming, and dance, etc.

? Ask: Which of these activities depend on cooperation and which don't? What is the difference between a cooperative and non-cooperative activity?

? Ask: Can you name sports or other activities in which cooperation is necessary for the success of the team? Examples: basketball, soccer, football or a group homework assignment.

? Ask: In which sports or activities is cooperation less important? Examples: swimming, singles tennis, running, etc.

Explain to youth that some people prefer to be part of a team where everyone's efforts are equally important. Others prefer to participate in activities in which they are dependent only upon their own skills. Stress that youth should consider their preferences when choosing activities. Keep in mind that cooperation and teamwork are necessary skills for sports, school, work, and almost all facets of life.

### Activity 1 – Memory Ball Toss

**DO** (Middle School • Teen) ⌚ 20-25 minutes

Ask youth to form a circle. Give one person the ball and identify them as the starting person. Explain that each person is going to catch the ball and then toss it to someone who hasn't previously caught the ball.

Explain that the last person to catch the ball in this sequence must return it to the starting person. Each person must remember who tossed the ball to them and the next person to whom they tossed

#### PREPARATION

⌚ 5 minutes

#### SUPPLIES

- ❑ Stopwatch
- ❑ One soft item such as a Koosh ball, a small stuffed animal, or other soft item

## Lesson 4: Cooperative Play

the ball.

The ball toss is then repeated, remembering the pattern and sequence of tosses (i.e., each person must receive and toss the ball to the same person as before). Practice the toss a few times so students can establish the pattern. The challenge is to see how fast the group can move the ball through the pattern from start to finish. The group should work as a team to help each other remember where the ball goes next. Time the group's efforts to track improvement.

### PREPARATION

🕒 5 minutes

### SET UP

Use tape or chalk to mark the rectangle

### SUPPLIES

- ❑ Measuring tape
- ❑ 30-50 small items that can be used as obstacles  
beanbags, food models, rolled up socks, etc.
- ❑ Tape or chalk
- ❑ Blindfolds

### Activity 2 – Trust Me

**DO** (Middle School • Teen) 🕒 20-25 minutes

See Activity 1 for School Age youth – Trust Me on page 155.

**REFLECT** (Middle School • Teen)

? Ask: Why do you believe your group did or did not make improvements with the ball toss game?

? Ask: What did your group do differently as time progressed?

Possible answer: better decision making as a group or team than individually.

**APPLY** (Middle School • Teen)

Ask youth to identify a situation at home or school where teamwork is necessary for completion of a task. Have them report back what they noticed after becoming more aware of the listening and cooperation skills necessary for people to work well together.

## Lesson 5: Planning A Wellness Event



### Outcomes (All Ages)

The purpose of this lesson is to have youth:

- Review important nutrition and physical activity concepts
- Develop a wellness activity for their after-school club or other group

### Instructor Essential Information

This lesson should be completed after the majority of activities in *Up for the Challenge: Lifetime Fitness, Healthy Decisions* have been completed. It is an overall review of key concepts. The concepts are applied to the development of a wellness program or event. The event is designed by the youth for their club, group or community.

### Discussion

**DO** (All Ages) ⌚ 20 minutes

Have youth sit in a large circle and tell them that it is time to review some of the information they learned in the *Up for the Challenge: Lifetime Fitness, Healthy Decisions* curriculum. Ask them to name at least five important health concepts that are important to their lives. Possible answers:

- Eat more fruits and vegetables
- Be physically active at least 60 minutes each day
- Consume fewer sugary snacks
- Watch less television
- Eat more whole grains

? Ask: Have you or anyone in your family made any healthy lifestyle changes or developed new habits as a result of what you have learned in *Up for the Challenge*? Possible answers: more family bike rides or walks, packing healthy school lunches, participation in physical activities in school or in the community, healthy family meals together, etc.

Designate a recorder to write down ideas on flip chart paper.

? Ask: What kinds of community activities encourage families to be active and healthy? Examples:

- Community fun runs or walks that benefit charities like the

#### PREPARATION

⌚ 5 minutes

#### SET UP

Set up flip chart.

#### SUPPLIES

- ☐ Supplies
- ☐ Flip chart and paper
- ☐ Markers
- ☐ Tape

## Lesson 5: Planning A Wellness Event

- March of Dimes, cancer research, etc.
- Nutrition fairs
- Multicultural festivals where unfamiliar foods and dances are presented
- Intramural or recreational sport activities
- Access to parks and recreational facilities for activities like neighborhood pick-up games, softball, Frisbee, etc.

Post the ideas around the room to be used in the next activity.

### SUPPLIES

- Flip chart and paper
- Markers
- Paper
- Pencils or pens
- Tape or chalk
- Blindfolds

### Activity 1 – Planning A Wellness Activity

**DO** (All Ages) ⌚ 60-90 minutes

Divide youth into groups. Using the ideas generated from the discussion, have each group come up with a plan of action for a wellness event that they could actually implement in their club or group or in the community.

When each group is finished, have youth share their ideas. Take a vote to choose which event youth would like to plan and develop. Examples: a family field day, a walk to raise money for a cause, donating healthy foods to a food bank, a jump-a-thon, a health fair, writing a healthy foods cookbook, or a cultural festival.

Once the wellness event has been chosen, lead the group through the planning discussion and make sure to cover the following items:

- **Timeline** - Youth will need to set a date for the event as well as deadlines for all things that need to happen prior to the event
- **Leader** - Vote on a youth chairperson who will be responsible for making sure everything gets accomplished
- **Roles** - Make sure everyone is assigned a job and understands their responsibilities
- **Location** – Research available locations for your event
- **Resources** – Identify what resources/supplies you need to make your event successful such as T-shirts, prizes, food, etc.? Who can help provide them? Can the group raise funds to support the event?
- **Partnerships** - Are there community partners who might help you with your event?
- **Marketing** – How will you handle the publicity for the event?



## Lesson 5: Planning A Wellness Event

- **Community Participation** – Youth are encouraged to involve the larger community such as the neighborhood, school, etc. How will you get the community to participate?
- **Rain Date** – Select a rain date if the event will be held outside
- **Other items?**

### Technology Challenge

(All Ages)

Spread the news about your up-coming wellness event. Write a news story that focuses on good health or one that publicizes your wellness event. Learn more about how to write a story by visiting <http://www.timeforkids.com> and clicking on "Homework Helper." Click on "A+ Papers," then "News Story." Click on "News Story Sample Paper," and also on "News Story Organizer." Use these tips for developing a news story to publicize your event.



# Appendix A Handouts

## Using MyPlate In Your Life 9 - 13 Year-Olds

# Using MyPlate in Your Life - 9-13 year-olds



**Using MyPlate in Your Life - 9-13 year-olds** was developed to help you build an eating plan that works for you. You will find the right amount of foods to eat to meet your calorie needs and promote a healthy weight. Your eating plan also will give you the nutrients you need for **good health and fitness!**

### Step 1: Estimate Your Daily Calorie Needs


Use the Estimated Daily Calorie Needs chart to find a calorie level that's right for you. Find your gender and age. Then select the activity level that best describes your lifestyle (sedentary, moderately active, or active) - see definitions on the next page.

The calorie levels in each gender and age group are based on youths of average height and at a healthy weight. If you are heavy and your doctor advises you to lose weight, follow the calorie level in the chart for your gender, age, and activity level. Then weigh yourself weekly and adjust your calorie intake and activity level to lose no more than one pound a week. Also, be sure that you do not feel hungry a lot of the time. You need to eat enough healthy foods to get all the nutrients you need to grow and develop normally!



Developed by Linda B. Bobroff, Ph.D., RD, LD/N, Professor  
Department of Family, Youth and Community Sciences, University of Florida IFAS Extension, 2011  
For more information, visit <http://ChooseMyPlate.gov>.


Using MyPlate In Your Life 9 – 13 Year-Olds



**Sedentary** – a lifestyle that includes only light physical activity associated with typical day-to-day life.

**Moderately active** – a lifestyle that includes physical activity equal to walking about 1½ to 2 miles per day at 3 to 4 miles per hour in addition to light physical activity associated with typical day-to-day life.

**Active** – a lifestyle that includes physical activity equal to walking more than 3 miles per day at 3 to 4 miles per hour, in addition to light physical activity associated with typical day-to-day life.




My **Estimated Daily Calorie Needs** are \_\_\_\_ calories. This calorie level is right for a child of average height who is at a healthy weight. The calorie level I want to aim for in my eating plan is \_\_\_\_ calories. (Use this number to build your eating plan in Step 2.) If you want to know about how many calories to eat at one meal, divide your total calories by three if you eat three meals a day. Keep in mind that your eating plan in Step 2 is based on your **total** daily calorie needs.

**ESTIMATED DAILY CALORIE NEEDS**

This chart gives an estimate of calorie needs for specific age and gender groups. Calorie ranges are based on physical activity level, from sedentary to active.

		CALORIES	
		Sedentary	Active
<b>Females</b>			
9 years	1,400	1,600	1,800
10 years	1,400	1,800	2,000
11 years	1,600	1,800	2,000
12-13 years	1,600	2,000	2,200
<b>Males</b>			
9 years	1,600	1,800	2,000
10 years	1,600	1,800	2,200
11 years	1,800	2,000	2,200
12 years	1,800	2,200	2,400
13 years	2,000	2,200	2,600



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Using MyPlate In Your Life 9 – 13 Year-Olds



**Step 2: Build Your Eating Plan**

Find your daily calorie level at the top of the **My Eating Plan** chart. Follow the column below your calorie level to see how much food to eat each day from each of the food groups. You can divide these amounts among three meals or three meals and one or two snacks a day. Select foods that you enjoy and that fit your lifestyle! There are tips for selecting foods from each food group on the last page.

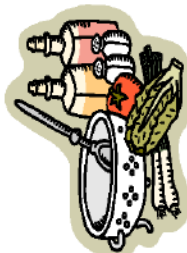
**My Eating Plan**

Calorie Level	1,400	1,600	1,800	2,000	2,200	2,400	2,600
<b>Fruits</b>	1½ cups	1½ cups	1½ cups	2 cups	2 cups	2 cups	2 cups
<b>Vegetables</b>	1½ cups	2 cups	2½ cups	2½ cups	3 cups	3 cups	3½ cups
<b>Grains</b>	5 oz-eq	5 oz-eq	6 oz-eq	6 oz-eq	7 oz-eq	8 oz-eq	9 oz-eq
<b>Protein foods</b>	4 oz-eq	5 oz-eq	5 oz-eq	5½ oz-eq	6 oz-eq	6½ oz-eq	6½ oz-eq
<b>Dairy</b>	2½ cups	3 cups	3 cups	3 cups	3 cups	3 cups	3 cups
<b>Oils</b>	4 tsp	5 tsp	5½ tsp	6 tsp	6½ tsp	7 tsp	7½ tsp

NOTE: oz-eq means ounce-equivalents; see the Grains group and Protein foods sections on page 4 to understand how these work.

Using MyPlate In Your Life 9 – 13 Year-Olds

**Fruits group** includes all fresh, frozen, canned, and dried fruits and 100% fruit juices. **Choose whole fruits rather than fruit juices most often.** In general, 1 cup of fruit or 100% fruit juice, or ½ cup of dried fruit is considered 1 cup from this group.



**Vegetables group** includes all fresh, frozen, canned, and dried vegetables and vegetable juices. In general, 1 cup of raw or cooked vegetables or vegetable juice, or 2 cups of raw leafy greens can be considered 1 cup from the vegetable group. **Include a variety of colors and types of vegetables, such as dark green, red, and orange vegetables and beans and peas throughout the week.**

**Grains group** includes all foods made from wheat, rice, oats, cornmeal, barley, and other grains such as bread, pasta, oatmeal, breakfast cereals, tortillas, and grits. In general, 1 slice of bread, 1 cup of ready-to-eat cereal, ½ cup of cooked rice, pasta, or cooked cereal, 1 (6") tortilla, or 1 (5") pancake is considered 1 ounce equivalent from this group. **At least half of all grains eaten should be whole grains such as whole wheat bread or pasta, oatmeal, and brown rice.**



**Dairy group** includes all milks, including lactose-free or reduced products, fortified soy beverages, yogurts, dairy desserts, and cheeses. **Make most choices fat-free or low-fat.** In general, 1 cup of milk or yogurt, 1½ ounces natural cheese, or 2 ounces of processed cheese is considered 1 cup from this group. Foods made from milk that are high in fat and have little or no calcium, such as cream, cream cheese, sour cream, and butter, are not included in this group. These high-fat foods can be eaten in limited amounts occasionally.




**Protein foods** include all meat, poultry, seafood, eggs, nuts, seeds, and processed soy products. **Choose lean protein foods and vary your choices throughout the week.** In general, 1 ounce lean meat, poultry, or seafood, 1 egg, 1 tablespoon peanut butter, ¼ cup cooked dry beans or peas, or 2 tablespoons nuts or seeds is considered 1 ounce equivalent.

**Oils** include vegetable, nut, and fish oils and soft vegetable oil table spreads that have no *trans* fats.

Handout for Chapter 1, Lesson 2: MyPlate - The Beginning Challenge

## Using MyPlate In Your Life - Teens

page 1 of 4



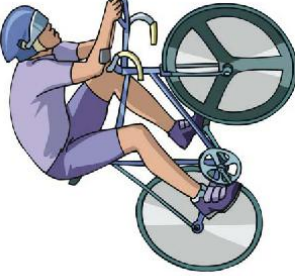
# Using MyPlate in Your Life - Teens


**Using MyPlate in Your Life - Teens** was developed to help you build an eating plan that works for you. You will find the right amount of foods to eat to meet your calorie needs and promote a healthy weight. Your eating plan also will give you the nutrients you need for good health and fitness!

### Step 1: Estimate Your Daily Calorie Needs

Use the Estimated Daily Calorie Needs chart to find a calorie level that's right for you. Find your gender and age. Then select the activity level that best describes your lifestyle (sedentary, moderately active, or active) - see definitions on the next page.

The calorie levels in each gender and age group are based on persons of average height and at a healthy weight. If you are obese or overweight and want to lose weight, you can follow the calorie level in the chart for your gender, age, and activity level. When losing weight, weigh yourself weekly and adjust your calorie intake and activity level to lose no more than one pound a week. Also, be sure that you do not feel hungry a lot of the time. You need to eat enough healthy foods to get all of the nutrients you need!






Developed by Linda B. Bobroff, Ph.D., RD, LD/N, Professor  
 Department of Family, Youth and Community Sciences, University of Florida IFAS Extension, 2011  
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Using MyPlate In Your Life - Teens

**Sedentary** - a lifestyle that includes only light physical activity associated with typical day-to-day life.



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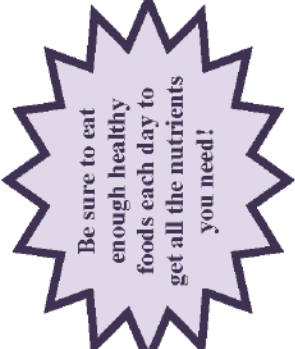


**ESTIMATED DAILY CALORIE NEEDS**

This chart gives an estimate of calorie needs for specific age and gender groups. Calorie ranges are based on physical activity level, from sedentary to active.

		CALORIES		
Activity Level:		Sedentary	Moderately Active	Active
<b>Females</b>				
13 years		1,600	2,000	2,200
14-18 years		1,800	2,000	2,400
19-20 years		2,000	2,200	2,400
<b>Males</b>				
13 years		2,000	2,200	2,600
14 years		2,000	2,400	2,800
15 years		2,200	2,600	3,000
16-18 years		2,400	2,800	3,200
19-20 years		2,600	2,800	3,000

My **Estimated Daily Calorie Needs** are \_\_\_\_\_ calories. This calorie level is right for a teen of average height who is at a healthy weight. The calorie level I want to aim for in my eating plan is \_\_\_\_\_ calories. (Use this number to build your eating plan in Step 2.) If you want to know about how many calories to eat at one meal, divide your total calories by three if you eat three meals a day. But keep in mind that your eating plan in Step 2 is based on your **total** daily calorie needs.



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Using MyPlate In Your Life - Teens

**Step 2: Build Your Eating Plan**

Find your daily calorie level at the top of the **My Eating Plan** chart. Follow the column below your calorie level to see how much food to eat each day from each of the food groups. You can divide these amounts among three meals or three meals and one or two snacks a day. Select foods that you enjoy and that fit your lifestyle! There are tips for selecting foods from each food group on the last page.



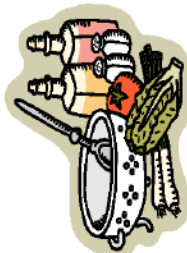
**My Eating Plan**

Calorie Level	1,600	1,800	2,000	2,200	2,400	2,600	2,800	3,000	3,200
<b>Fruits</b>	1 ½ cups	1 ½ cups	2 cups	2 cups	2 cups	2 cups	2 ½ cups	2 ½ cups	2 ½ cups
<b>Vegetables</b>	2 cups	2 ½ cups	2 ½ cups	3 cups	3 cups	3 ½ cups	3 ½ cups	4 cups	4 cups
<b>Grains</b>	5 oz-eq	6 oz-eq	6 oz-eq	7 oz-eq	8 oz-eq	9 oz-eq	10 oz-eq	10 oz-eq	10 oz-eq
<b>Protein foods</b>	5 oz-eq	5 oz-eq	5 ½ oz-eq	6 oz-eq	6 ½ oz-eq	6 ½ oz-eq	7 oz-eq	7 oz-eq	7 oz-eq
<b>Dairy</b>	3 cups	3 cups	3 cups	3 cups	3 cups	3 cups	3 cups	3 cups	3 cups
<b>Oils</b>	5 tsp	5 ½ tsp	6 tsp	6 ½ tsp	7 tsp	7 ½ tsp	8 tsp	9 ½ tsp	11 tsp

NOTE: oz-eq means ounce-equivalents; see the Grains group and Protein foods sections on page 4 to understand how these work.

Using MyPlate In Your Life - Teens

**Fruits group** includes all fresh, frozen, canned, and dried fruits and 100% fruit juices. **Choose whole fruits rather than fruit juices most often.** In general, 1 cup of fruit or 100% fruit juice, or ½ cup of dried fruit is considered 1 cup from this group.



**Vegetables group** includes all fresh, frozen, canned, and dried vegetables and vegetable juices. In general, 1 cup of raw or cooked vegetables or vegetable juice, or 2 cups of raw leafy greens can be considered 1 cup from the vegetable group. **Include a variety of colors and types of vegetables, such as dark green, red, and orange vegetables and beans and peas throughout the week.**

**Grains group** includes all foods made from wheat, rice, oats, cornmeal, barley, and other grains such as bread, pasta, oatmeal, breakfast cereals, tortillas, and grits. In general, 1 slice of bread, 1 cup of ready-to-eat cereal, ½ cup of cooked rice, pasta, or cooked cereal, 1 (6") tortilla, or 1 (5") pancake is considered 1 ounce equivalent from this group. **At least half of all grains eaten should be whole grains such as whole wheat bread or pasta, oatmeal, and brown rice.**



**Dairy group** includes all milks, including lactose-free or reduced products, fortified soy beverages, yogurts, dairy desserts, and cheeses. **Make most choices fat-free or low-fat.** In general, 1 cup of milk or yogurt, 1½ ounces natural cheese, or 2 ounces of processed cheese is considered 1 cup from this group. Foods made from milk that are high in fat and have little or no calcium, such as cream, cream cheese, sour cream, and butter, are not included in this group. These high-fat foods can be eaten in limited amounts occasionally.



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**Oils** include vegetable, nut, and fish oils and soft vegetable oil table spreads that have no *trans* fats.

Handout for Chapter 1, Lesson 2: MyPlate: The Beginning Challenge

### MyPlate Daily Checklist Instructions

The *MyPlate Daily Checklist* is a USDA tool to help youth estimate their daily calorie requirements and build an eating plan customized for each child’s age, sex, weight and height.

1. To create the checklist, go online to <http://www.choosemyplate.gov/MyPlate-Daily-Checklist-input>.
2. Enter your personal information in the MYPLATE CHECKLIST CALCULATOR and select “Calculate Food Plan.”
3. Then click on the PDF download “Your recommended calorie plan.”
4. A PDF will open with the customized *MyPlate Daily Checklist*.
5. Download or print the checklist.

**MYPLATE CHECKLIST CALCULATOR**

Age: 12

Sex: Female

Weight: 93 pounds

Height: 4 feet 9 inches

Physical activity: Less than 30 minutes a day of moderate activity.

Calculate Food Plan

**MyPlate Daily Checklist**  
Find your Healthy Eating Style

Everything you eat and drink matters. Find your healthy eating style that reflects your preferences, culture, traditions, and budget—and maintain it for a lifetime! The right mix can help you be healthier now and into the future. The key is choosing a variety of foods, and beverages from each food group—and making sure that each choice is limited in saturated fat, sodium, and added sugars. Start with small changes—“MyWins”—to make healthier choices you can enjoy.

Food Group Amounts for a 1,600 Calories a Day

Food Group	Target	Did you reach your target?	Limit
Fruits	1 1/2 cups Focus on whole fruits that are fresh, frozen, canned, or dried.	Y N	Limit: 500 to 2,000 milligrams a day of sodium or 35 grams a day of added sugars to 40 grams a day.
Vegetables	2 cups 1 cup vegetable counts as: • 1/2 cup raw or cooked fruit, or • 2 cups leafy salad greens, or • 1 cup 100% vegetable juice.	Y N	
Grains	5 ounce equivalents 1 ounce of grains counts as: • 1 slice bread, or • 1/2 cup ready-to-eat cereal, or • 1/2 cup cooked rice, pasta, or cereal.	Y N	
Protein	5 ounce equivalents 1 ounce of protein counts as: • 1 ounce lean meat, poultry, or seafood, or • 1 egg, or • 1 tbsp peanut butter, or • 1/2 cup cooked beans or peas, or • 1/2 ounce nuts or seeds.	Y N	
Dairy	3 cups 1 cup of dairy counts as: • 1 cup milk, or • 1/2 cup yogurt, or • 1/2 cup soft-ripened cheese, or • 1/2 ounce natural cheese or 2 ounces processed cheese.	Y N	

Be active your way:  
• Children 6 to 17 years old should move at least 60 minutes every day.

Track your MyPlate, MyWins

Center for Nutrition Policy and Promotion  
January 2019  
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Handout for Chapter 1, Lesson 3: The Importance of Good Hygiene

## Proper Handwashing

To download the original handout, go to

[https://www.fns.usda.gov/sites/default/files/how\\_to\\_washhands.pdf](https://www.fns.usda.gov/sites/default/files/how_to_washhands.pdf)



# How to Wash Your Hands

- Wash hands with liquid **soap** under warm running **water** for at least **20 seconds.**
- Wash hands thoroughly, paying special attention to germs that may be trapped under nails and in crevices.
- Rinse well to remove all traces of **soap.**
- Dry hands with **paper towels.**
- Use a **paper towel** to turn off the faucet after washing hands.
- Allow hands to dry thoroughly after cleansing (before contact with anything).

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Handout for Chapter 1, Lesson 2: MyPlate: The Beginning Challenge

## **Recipe: MyPlate Kabobs**

### *Recipe*

#### **MyPlate Kabobs**

##### **UTENSILS**

Cutting board  
Knife  
Large serving platter  
Wood skewer

##### **INGREDIENTS**



Cubed ham or turkey  
Cubed low-fat cheese  
Cubed pineapple  
Cherry tomatoes  
Other fruit, vegetables or meats, cubed  
Whole wheat pretzel sticks, crackers, wraps or rolls

##### **DIRECTIONS**

To make a MyPlate Kabob, place different kinds of food on a toothpick or skewer. Food examples: cubes of ham/turkey (protein), cheese (dairy), pineapple (fruits), and cherry tomatoes (vegetables). Serve with whole grain pretzels, cracks or wraps and call them MyPlate snacks.

Handout for Chapter 1, Lesson 4: In Beat – The Heartbeat

**Heart Rate Log**

 <b>Time In Minutes</b>	<h1 style="color: red;">Heart Rate Log</h1> 												
<b>30</b>													
<b>25</b>													
<b>20</b>													
<b>15</b>													
<b>10</b>													
<b>5</b>													
<b>0</b>													
	<b>55</b>	<b>65</b>	<b>75</b>	<b>85</b>	<b>95</b>	<b>105</b>	<b>115</b>	<b>125</b>	<b>135</b>	<b>145</b>	<b>155</b>	<b>165</b>	<b>175</b>
<b>Heartbeats Per Minute</b>													

Handout for Chapter 1, Lesson 5: Think Your Drink


## Can You Guess How Much Fat Is In Each Cup Of Milk?

1. We often think that drinking low-fat or fat-free milk will not taste as good as whole milk. Try out these samples labeled A - D. Can you guess how much fat is in each cup of milk? Mark down whole, 2%, 1%, or fat-free.
  - Product A: \_\_\_\_\_
  - Product B: \_\_\_\_\_
  - Product C: \_\_\_\_\_
  - Product D: \_\_\_\_\_
  
2. Which milk product did you like the best? Put a check mark by the one that you liked the best.
  
3. There are low-fat or fat-free flavored varieties of milk that taste very similar to whole fat flavored milk. Now, try out the samples labeled E - F. Can you guess how much fat is in each cup of flavored milk? Mark down whole, 2%, 1%, or fat free.
  - Product E: \_\_\_\_\_
  - Product F: \_\_\_\_\_
  
4. Which flavored milk product did you like the best? Put a check mark by the one that you liked best.


Handout for Chapter 1, Lesson 5: Think Your Drink, also Chapter 2, Lesson 6: Energy Drinks

## 10 Tips: Make Better Beverage Choices

To download the original handout, go to <https://choosemyplate-prod.azureedge.net/sites/default/files/printablematerials/DGTipsheet19MakeBetterBeverageChoices.pdf>



United States Department of Agriculture




Based on the  
Dietary  
Guidelines  
for Americans

### 10 tips Nutrition Education Series


# Make better beverage choices

**A healthy eating style includes all foods and beverages.** Many beverages contain added sugars and offer little or no nutrients, while others may provide nutrients but too many calories from saturated fat. Here are some tips to help you make better beverage choices.

**1 Drink water**  
Drink water instead of sugary drinks. Non-diet soda, energy or sports drinks, and other sugar-sweetened drinks contain a lot of calories from added sugars and few nutrients.



**6 Don't forget your dairy\*\***  
Select low-fat or fat-free milk or fortified soy beverages. They offer key nutrients such as calcium, vitamin D, and potassium. Older children, teens, and adults need 3 cups of milk per day, while children 4 to 8 years old need 2½ cups and children 2 to 3 years old need 2 cups.




**2 How much water is enough?**  
Let your thirst be your guide. Everyone's needs are different. Most of us get enough water from the foods we eat and the beverages we drink. A healthy body can balance water needs throughout the day. Drink plenty of water if you are very active or live or work in hot conditions.

**7 Enjoy your beverage**  
When water just won't do—enjoy the beverage of your choice, but just cut back. Remember to check the serving size and the number of servings in the can, bottle, or container to stay within calorie needs. Select smaller cans, cups, or glasses instead of large or supersized options.

**3 A thrifty option**  
Water is usually easy on the wallet. You can save money by drinking water from the tap at home or when eating out.


**8 Water on the go**  
Water is always convenient. Fill a clean, reusable water bottle and toss it in your bag or briefcase to quench your thirst throughout the day. Reusable bottles are also easy on the environment.



**4 Manage your calories**  
Drink water with and between your meals. Adults and children take in about 400 calories per day as beverages—drinking water can help you manage your calories.

**9 Check the facts**  
Use the Nutrition Facts label to choose beverages at the grocery store. The food label and ingredients list contain information about added sugars, saturated fat, sodium, and calories to help you make better choices.

**5 Kid-friendly drink zone**  
Make water, low-fat or fat-free milk, or 100% juice an easy option in your home. Have ready-to-go containers available in the refrigerator. Place them in lunch boxes or backpacks for easy access when kids are away from home. Depending on age, children can drink ½ to 1 cup, and adults can drink up to 1 cup of 100% fruit or vegetable juice\* each day.



**10 Compare what you drink**  
[Food-A-Pedia](#), an online feature available at [SuperTracker.usda.gov](http://SuperTracker.usda.gov), can help you compare calories, added sugars, and fats in your favorite beverages.

\*100% juice is part of the Fruit or Vegetable Group.

\*\* Milk is a part of the Dairy Group. A cup = 1 cup of milk or yogurt, 1½ ounces of natural cheese, or 2 ounces of processed cheese.

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Go to [ChooseMyPlate.gov](http://ChooseMyPlate.gov)  
for more information.

DG TipSheet No. 19  
May 2012  
Revised October 2016

Handout for Chapter 1, Lesson 5: Think Your Drink

**Recipe: Three Fruit Drinks**

**Fruit Juice Spritzer, Juice Float, Power Me Up Smoothie**

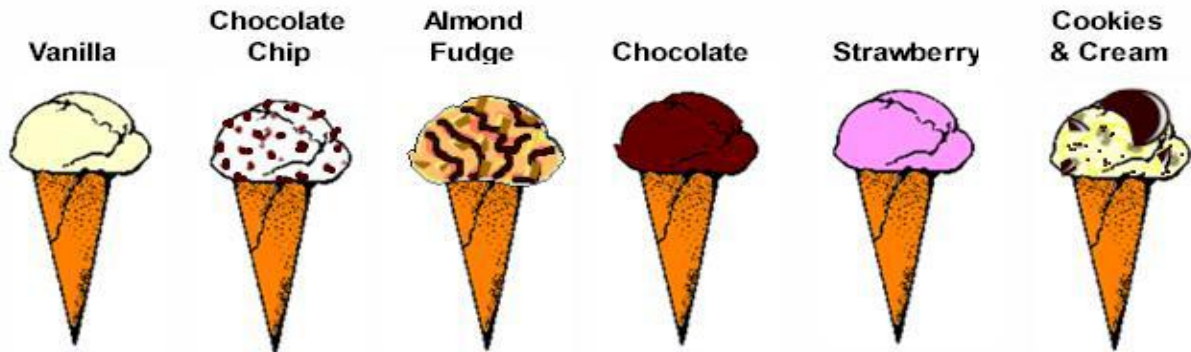
*Recipes*

<b>RECIPE</b>	<b>INGREDIENTS</b>	<b>DIRECTIONS</b>
<b>Fruit Juice Spritzer</b>	2½ cups orange juice 1 cup pineapple juice 1 liter club soda or seltzer water	Mix juices in a pitcher and add soda. Stir and serve over ice.
<b>Juice Float</b>	100% fruit juice Frozen fruit yogurt	Offer a selection of three or more 100% fruit juices and low-fat frozen yogurt. Provide 12 ounce cups and an ice cream scoop for the youth. Have each youth concoct their own juice float as a snack. Put a scoop or large spoonful of frozen fruit yogurt in your cup; pour one or more types of fruit juice on top; mix with spoon.
<b>Power Me Up Smoothie</b>	½ cup fresh or frozen fruit 8 ounces low-fat or fat-free plain yogurt 8 ice cubes	Place all ingredients in a blender. Blend thoroughly. Makes two 8 ounce servings or 10 small sample servings.

Handout for Chapter 1, Lesson 5: Think Your Drink

### Ice Cream Personality Test

Pick your favorite flavor and see what it says about your personality.



<b>VANILLA</b>	There is nothing plain about vanilla. In fact, if you love vanilla you are colorful, impulsive, a risk taker who sets high goals and has high expectations of yourself. You are a compassionate understanding and agreeable person who loves taking center stage.
<b>CHOCOLATE CHIP</b>	Chocolate chip lovers are the life of the party. Other people are easily drawn to your zest for life. Your captivating personality makes you a shining star in social situations.
<b>ALMOND FUDGE</b>	Fans of this nutty flavor are devoted, conscientious and respectful. A moral perfectionist, you have a sense of old-fashioned virtue and are afraid of hurting people’s feelings. You are very private and are happy staying out of the spotlight.
<b>CHOCOLATE</b>	A chocolate lover is an extrovert, young at heart and lives in the moment. You crave novelty in all your pursuits. For you, life is much too short to be serious all the time. Lively, passionate and full of energy, you enjoy flirting but may sometimes be too gullible.
<b>STRAWBERRY</b>	You are a thoughtful, logical person who carefully weighs each option before making decisions. You are an introvert who doesn’t jump into unknown situations. You are content and effective working behind the scenes and out of the limelight. <sup>5</sup>
<b>COOKIES AND CREAM</b>	If this chunky, creamy deliciousness is your favorite then you are still a kid at heart. Small treats in life always give you more joy than bigger pleasures and you enjoy the sweetness of life. Bold and outspoken with an infectious warmth. You have tons of opinions and have no problem sharing them.

<sup>5</sup> Adapted from <http://www.polkacafe.com/ice-cream-flavour-and-personality-999.html>

Handout for Chapter 1, Lesson 7: Picking Protein

## 10 Tips for Choosing Protein

To see the original web page go to: <https://www.choosemyplate.gov/ten-tips-with-protein-foods-variety-is-key>

Protein foods include both animal (meat, poultry, seafood, and eggs) and plant (beans, peas, soy products, nuts, and seeds) sources. We all need protein—but most Americans eat enough, and some eat more than they need. How much is enough? Most people, ages 9 and older, should eat 5 to 7 ounces\* of protein foods each day.

1. **Vary your protein food choices** - Eat a variety of foods from the Protein Foods Group each week. Experiment with main dishes made with beans or peas, nuts, soy, and seafood.
2. **Choose seafood twice a week** - Eat seafood in place of meat or poultry twice a week. Select a variety of seafood — include some that are higher in oils and low in mercury, such as salmon, trout, and herring.
3. **Make meat and poultry lean or low fat** - Choose lean or low-fat cuts of meat like round or sirloin and ground beef that is at least 90% lean. Trim or drain fat from meat and remove poultry skin.
4. **Have an egg** - One egg a day, on average, doesn't increase risk for heart disease, so make eggs part of your weekly choices. Only the egg yolk contains saturated fat, so have as many egg whites as you want.
5. **Eat plant protein foods more often**  
Try beans and peas (kidney, pinto, black, or white beans; split peas; chickpeas; hummus), soy products (tofu, tempeh, veggie burgers), nuts, and seeds. They are naturally low in saturated fat and high in fiber.
6. **Nuts and seeds** - Choose unsalted nuts or seeds as a snack, on salads, or in main dishes to replace meat or poultry. Nuts and seeds are a concentrated source of calories, so eat small portions to keep calories in check.
7. **Keep it tasty and healthy** - Try grilling, broiling, roasting, or baking — they don't add extra fat. Some lean meats need slow, moist cooking to be tender — try a slow cooker for them. Avoid breading meat or poultry, which adds calories.
8. **Make a healthy sandwich** - Choose turkey, roast beef, canned tuna or salmon, or peanut butter for sandwiches. Many deli meats, such as regular bologna or salami, are high in fat and sodium—make them occasional treats only.
9. **Think small when it comes to meat portions** - Get the flavor you crave but in a smaller portion. Make or order a smaller turkey burger or a "petite" size steak.
10. **Check the sodium** - Check the Nutrition Facts label to limit sodium. Salt is added to many canned foods — including soups, vegetables, beans, and meats. Many processed meats — such as ham, sausage, and hot dogs—are high in sodium. Some fresh chicken, turkey, and pork are brined in a salt solution for flavor and tenderness.

\* [What counts as an ounce of protein foods?](#) 1 ounce of meat, poultry, or seafood, 1 egg; ¼ cup cooked beans or peas; 1 tablespoon of peanut butter; or ½ ounce of nuts or seeds can be considered as 1 ounce-equivalent from the Protein Foods Group. Revised January 2016

Handout for Chapter 1, Lesson 7: Picking Protein

## How Much Meat And Beans?



# How Much Meat and Beans?

This chart shows how much to eat from the Meat and Beans Group. This amount is right for persons who get less than 30 minutes of moderate physical activity each day. Young people who are more active may need to eat more food to meet their calorie (energy) needs. Individual needs vary, so use this as a general guide to food intake.

Group	Age	Daily Recommendation
<b>Children</b>	4 to 8 years old	3 to 4 ounce equivalents
<b>Girls</b>	9 to 18 years old	5 ounce equivalents
<b>Boys</b>	9 to 13 years old	5 ounce equivalents
	14 to 18 years old	6 ounce equivalents

### What counts as an ounce of meat and beans?

In general, 1 ounce of meat, poultry or fish, ¼ cup cooked dry beans, 1 egg, 1 tablespoon of peanut butter, or ½ ounce of nuts or seeds, each count as 1-ounce from the meat and beans group.

#### Here are a few more examples:

<ul style="list-style-type: none"> <li>¼ cup tofu</li> <li>¼ cup cooked black beans or chickpeas</li> <li>¼ cup hummus</li> </ul>	<ul style="list-style-type: none"> <li>1 sandwich slice lean turkey meat</li> <li>24 pistachios</li> <li>½ cup split pea soup</li> </ul>
---	--



Handout for Chapter 1, Lesson 7: Picking Protein

## Recipe: Let's Try Black Bean and Corn Salsa

### *Recipe*

#### **Let's Try Black Bean and Corn Salsa**

##### **UTENSILS**

Cutting board  
Cutting knife  
Mixing bowl and spoon  
Measuring spoons

##### **INGREDIENTS**

1/3 cup chopped red bell pepper  
2 tablespoons olive oil  
¼ cup red onion, finely chopped  
2 cloves garlic, chopped  
1 large tomato, chopped  
1 stalk celery, chopped  
3 tablespoons chopped fresh basil  
Lime juice  
2 ears corn (1 ½ cups frozen corn)  
2 cans black beans, rinsed and drained  
Salt  
Freshly ground pepper  
½ teaspoon chili powder  
½ teaspoon ground cumin

##### **DIRECTIONS**

Husk corn, combine all ingredients in a bowl. Stir, cover, and chill. Serve with baked tortilla chips.

Handout for Chapter 1, Lesson 7: Picking Protein

## Recipe: Fresh Spinach and Cilantro Salad

### *Recipe*

#### **Fresh Spinach And Cilantro Salad**

##### **UTENSILS**

Cutting board  
Cutting knife  
Mixing bowl and spoon  
Measuring cups and spoons  
Salad bowl

##### **INGREDIENTS**

1 – 16 ounce prewashed bag of spinach or 1 bunch of spinach, washed  
1 – 15 ounce can beans, rinsed and drained (kidney, cannellini, black beans)  
4 medium tomatoes, chopped  
1 medium onion, thinly sliced and quartered  
2 cups cilantro, chopped  
1 tablespoon olive or vegetable oil  
1 fresh lemon  
1 fresh lime  
2 cups crumbled low-fat Feta, Jack, or Cheddar cheese  
1 cup baked tortilla chips, lightly crushed

##### **DIRECTIONS**

Place all vegetables in a large salad bowl. Squeeze the juice of the lemon and lime into the bowl and drizzle with oil. Toss salad until all vegetables are well coated. Sprinkle cheese and tortilla chips on top and serve.

Serves: 8 as a side dish or 4 as an entrée

Handout for Chapter 1, Lesson 7: Picking Protein

## Recipe: Walnut Hummus Dip with Apple

### *Recipe*

#### **Walnut Hummus Dip with Apple**

##### **UTENSILS**

Cutting board  
Cutting knife  
Mixing bowl and spoon  
Measuring cups and spoons  
Zester or grater  
Blender or Food Processor

##### **INGREDIENTS**

2 - 15 ½ ounce cans chick peas, rinsed and drained  
1 cup walnuts  
2 tablespoons canola oil  
1 teaspoon orange zest  
¼ cup orange juice  
1 garlic clove, minced  
Salt and pepper to taste  
Red or green apples for dipping

##### **DIRECTIONS**

Toast walnuts until golden in a non-stick skillet for 3-5 minutes. Cool. Blend chick peas in a food processor, add walnuts, oil, orange zest, orange juice, salt and pepper until well blended. Pour into serving bowl. Serve immediately with sliced apples. To prevent apples from discoloring, sprinkle with lemon juice.

Handout for Chapter 1, Lesson 7: Picking Protein

## Recipe: Good For You And Tastes Good Too Bean Tacos

### *Recipe*

#### **Good For You And Tastes Good Too Bean Tacos**

##### **UTENSILS**

Cutting board  
Cutting knife  
Mixing bowl and spoon  
Measuring cups and spoons  
Skillet

##### **INGREDIENTS**

2 cans of beans  
1 tablespoon of olive oil  
½ onion, finely chopped  
1 clove garlic, chopped or minced  
6 corn tortillas  
6 tablespoons of low-fat sour cream or low-fat plain yogurt  
½ cup of low-fat shredded mozzarella cheese

##### **DIRECTIONS**

In a skillet, heat the olive oil, chopped garlic, and chopped onion. Sauté these ingredients for a few minutes until the garlic is slightly golden. Drain and rinse the can of beans and add to the pan. Mash the beans into the oil, garlic, and onion. Mix the ingredients in the skillet.

Warm-up the corn tortillas. Spoon the beans onto the warm corn tortillas, add some shredded mozzarella cheese and one teaspoon of low-fat sour cream.

Makes 6 servings.

Handout for Chapter 1, Lesson 9: Eating Rainbows

**Veggie Plant Parts<sup>6</sup>**

Name \_\_\_\_\_

Did you know that vegetables come from all parts of the plant? Vegetables can be roots, stems, leaves, seeds, flowers or even fruit. Yes, vegetables can actually be the “fruit” part of the plant. A botanist (a scientist who studies plants) classifies the fruit of the plant as the part that surrounds the seeds. Examples of vegetables that are the fruit part of the plant include zucchini, cucumbers, peppers, tomatoes and eggplant.

**WORD LIST GAME**

**Directions:** Unscramble the part of the plant in the left column. Next, draw a line from the plant part to the correct vegetable. Answers can be found below.

O R O T \_ \_ \_ \_ \_

Broccoli

T I U F R \_ \_ \_ \_ \_

Corn

A L F E \_ \_ \_ \_ \_

Carrot

E D S E \_ \_ \_ \_ \_

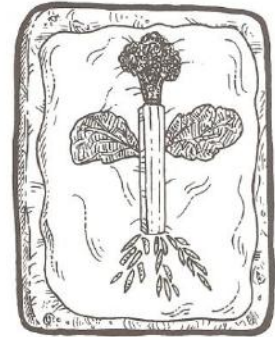
Celery

T E S M \_ \_ \_ \_ \_

Romaine Lettuce

E O L W F R \_ \_ \_ \_ \_

Tomato



**Plant Part Art** *A Science Project You Can Eat!*

**INGREDIENTS**

- |                                       |  |
|---------------------------------------|--|
| Large flat cracker                    | 1 celery stick                         |
| Peanut butter or low-fat cream cheese | 1 lettuce leaf, torn into small pieces |
| 2-3 broccoli florets                  | 1 tablespoon grated carrots            |

**DIRECTIONS**

Lightly spread cracker with either peanut butter or cream cheese. Next, create a plant or garden design on the cracker by arranging shredded carrots for roots, celery stick for the stem, lettuce for leaves and broccoli for flowers. EAT & ENJOY! *Serves 1.*

**Answers to Word List Game:** flower = broccoli, fruit = tomato, leaf = lettuce, root = carrot, seed = corn, stem = celery

<sup>6</sup> Adapted from Connie Liakos Evers, MS, RD, How to Teach Nutrition to Kids, Leader/Activity Guide, 1998, 24 Carrot Press.

Handout for Chapter 1, Lesson 9: Eating Rainbows

## You Can Eat A Rainbow

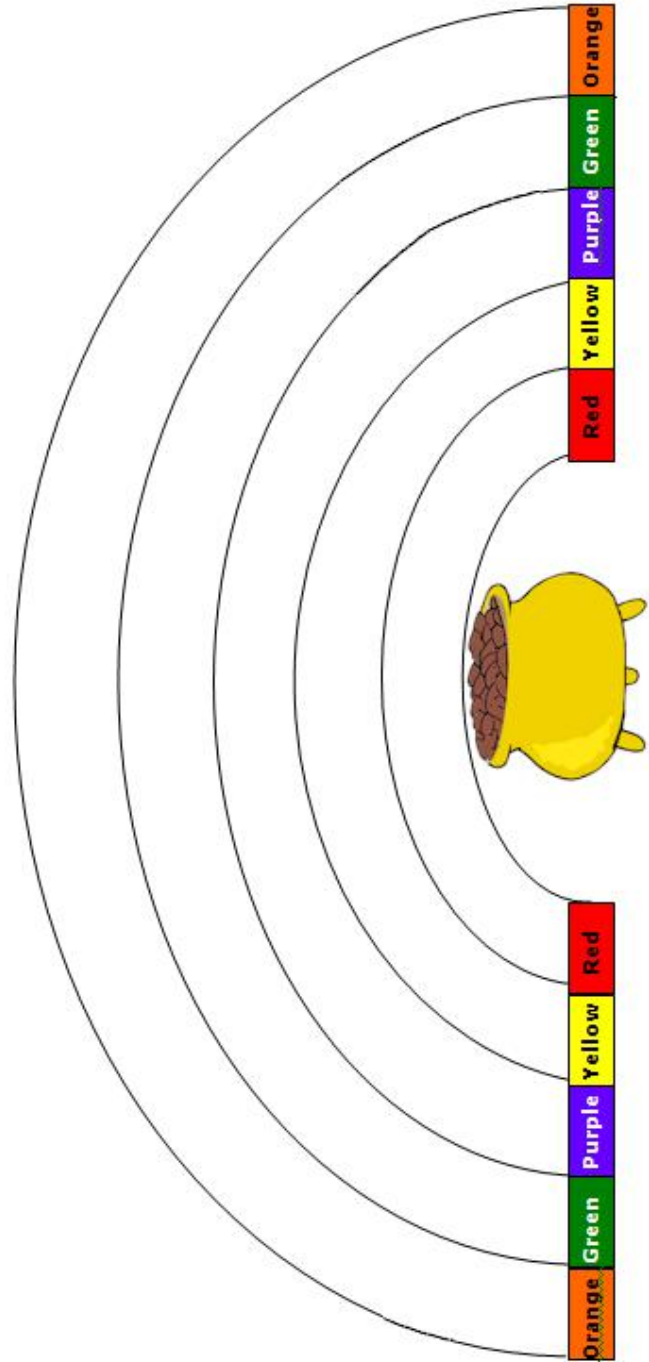
### You Can Eat A Rainbow

Fruits and vegetables should be part of each meal, every day. Fruits and vegetables come in all colors of the rainbow from deep red and green, to bright orange and yellow. Their colors come from natural ingredients inside that give them their healthy properties.

The pot at the end of the rainbow is **legumes** (dry beans, dry peas, lentils). Remember legumes are nutritious and also an excellent source of protein.

Try to see how many colored fruits and vegetables you can eat this week. Draw or write them in their matching colors of the **rainbow**. How many times did you eat legumes during the week? \_\_\_\_\_

## You Can Eat A Rainbow



Handout for Chapter 1, Lesson 9: Eating Rainbows

## Recipe: Rainbow Fruit Kabobs<sup>7</sup>

### *Recipe*

#### **Rainbow Fruit Kabobs**

(Makes 12 Kabobs)

##### **UTENSILS**

Cutting board  
Sharp knife  
Can opener  
12 wooden skewers (10 to 12 inches long)  
Large serving platter

##### **INGREDIENTS**

1 pint strawberries, washed and stems removed  
1 cantaloupe, cut into chunks  
20 ounce can pineapple chunks in juice, drain and reserve juice, or fresh pineapple cut into chunks  
1 honeydew melon, cut into chunks  
1 pound purple grapes, washed  
2 large bananas, peeled

##### **DIRECTIONS**

Cut each banana into six chunks. Dip chunks in reserved pineapple juice. Thread a strawberry, a cantaloupe chunk, a grape, a pineapple chunk, a honeydew melon chunk and a banana chunk on each skewer. Add more fruit until each skewer is full. Set on a plate and start threading the next skewer. Repeat until all skewers are filled with a rainbow of colorful fruit.

Lay skewers on platter. Pour reserved pineapple juice over the top to keep fruit from browning. Chill until ready to serve.

<sup>7</sup> The Rainbow Fruit Kabobs recipe is adapted from the Fun with Fruits and Vegetables Kids Cookbook, 2003, Dole Food Company, Inc., <http://www.dole5aday.com>

Handout for Chapter 1, Lesson 9: Eating Rainbows

## Recipe: Crunchy Vegetable Burrito

### *Recipe*

#### **Crunchy Vegetable Burrito**

##### **UTENSILS**

Cutting board  
Grater  
Knife  
Mixing bowl and spoon  
Measuring cups and spoons

##### **INGREDIENTS**

½ cup shredded carrots  
½ cup chopped broccoli  
½ cup chopped cauliflower  
2 green onions, thinly sliced  
1 cup (4 ounces) shredded low-fat Cheddar cheese  
¼ cup low-fat Ranch salad dressing  
½ teaspoon chili powder  
4 (7-inch) whole wheat tortillas  
1 cup lettuce, torn or cut into bite size pieces

##### **DIRECTIONS**

Grate the carrots and cut the broccoli, cauliflower and green onions.

In a mixing bowl, combine carrots, broccoli, cauliflower and onions with cheese, dressing and chili powder.

Lay tortilla flat on the counter and spoon about ½ cup vegetable mixture and ¼ cup lettuce down the center. Wrap each tortilla around the vegetable mixture.  
(Makes 4 servings)

Handout for Chapter 1, Lesson 9: Eating Rainbows





## Healthy Habits for Lifelong Cancer Protection

To download the original handout, go to <http://www.aicr.org/healthykids/infographics/healthy-kids.html>





# AICR Healthy Kids

## Healthy habits for lifelong cancer protection







### HEALTHY EATING TIPS

-  Let children serve themselves—it allows them to learn portion sizes.
-  It may take up to 12 times to convince a child to try a new food.
-  Cook with your kids and enjoy family dinner night.
-  Kids who drink one or more sugary beverages per day have 55% greater odds of being overweight or obese. Serve water or milk instead.

### HEALTHY ACTIVITY TIPS

-  Find creative ways for kids to be active for at least 60 minutes each day.
-  Try: an organized sport like soccer or a game of tag.
-  Try: push ups, hanging on the monkey bars or climbing a jungle gym.
-  Limit inactivity such as screen time. Kids older than 2 should be restricted to just 1-2 hours a day.


**Kids with healthy habits are at lower risk for these health issues later in life:**

-  cancers
-  obesity
-  heart disease
-  type 2 diabetes
-  stroke
-  osteoarthritis




**Embrace a healthier lifestyle yourself, so you'll be a positive role model for your family.**


**For more information on AICR healthy kids, including activities, tips and recipes, visit [aicr.org/healthykids](http://aicr.org/healthykids).**

Sources: CDC Healthy Youth. [www.cdc.gov/healthyyouth/obesity/facts.htm](http://www.cdc.gov/healthyyouth/obesity/facts.htm); Kaiser Family Foundation (sedentary data); The Monday Campaigns. [www.mondaycampaigns.org/campaigns/the-kids-cook-monday/](http://www.mondaycampaigns.org/campaigns/the-kids-cook-monday/); WCRF/AICR Continuous Update Project [www.aicr.org/continuous-update-project/](http://www.aicr.org/continuous-update-project/); Morenga LT, Mallard S, Mann J. Dietary sugars and body weight: systematic review and meta-analyses of randomised controlled trials and cohort studies. *Brit Med J.* Jan 15 2013;346.



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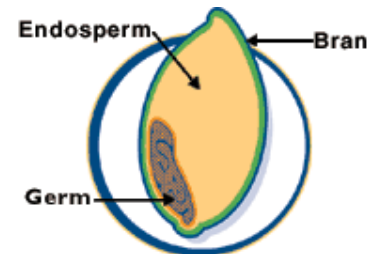
Handout for Chapter 1, Lesson 10: Make Half Your Grains Whole

## What Are Whole Grains?

### WHOLE GRAIN COMPONENTS

Whole grains include all three parts of a grain kernel: the bran, germ, and endosperm. Whole grain foods are made with all three of these grain components. For instance, whole wheat flour, some breakfast cereals, brown rice, barley, and oatmeal are all considered whole grain foods. You'll find more information at:

<http://www.wholegrainscouncil.org>



### THE WHOLE IS GREATER THAN THE SUM OF THE PARTS

The fiber, vitamins, minerals, and hundreds of phytochemicals found in whole grains work together in powerful ways. Though the exact mechanisms are unknown, scientific evidence shows that regular consumption of whole grains is linked to a reduced risk of certain diseases.



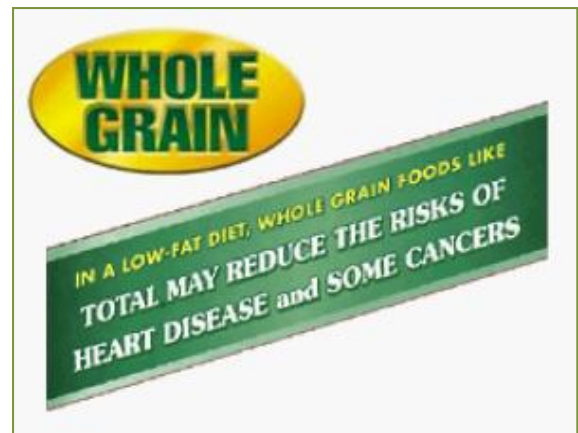
The whole is greater than the sum of its parts.

- Vitamins
- Antioxidants
- Carbohydrates
- Phytonutrients
- Minerals
- Fiber

### HEALTH BENEFITS OF WHOLE GRAINS

A diet that contains whole grains may have these benefits:

- Reduced overall risk for heart disease and heart disease mortality.
- Reduced instances of certain cancers - most notably gastrointestinal cancers.
- Whole grain foods appear to influence carbohydrate metabolism. Studies suggest that consuming whole grain foods may reduce the risk for developing Type II diabetes.



### FINDING WHOLE GRAIN FOODS

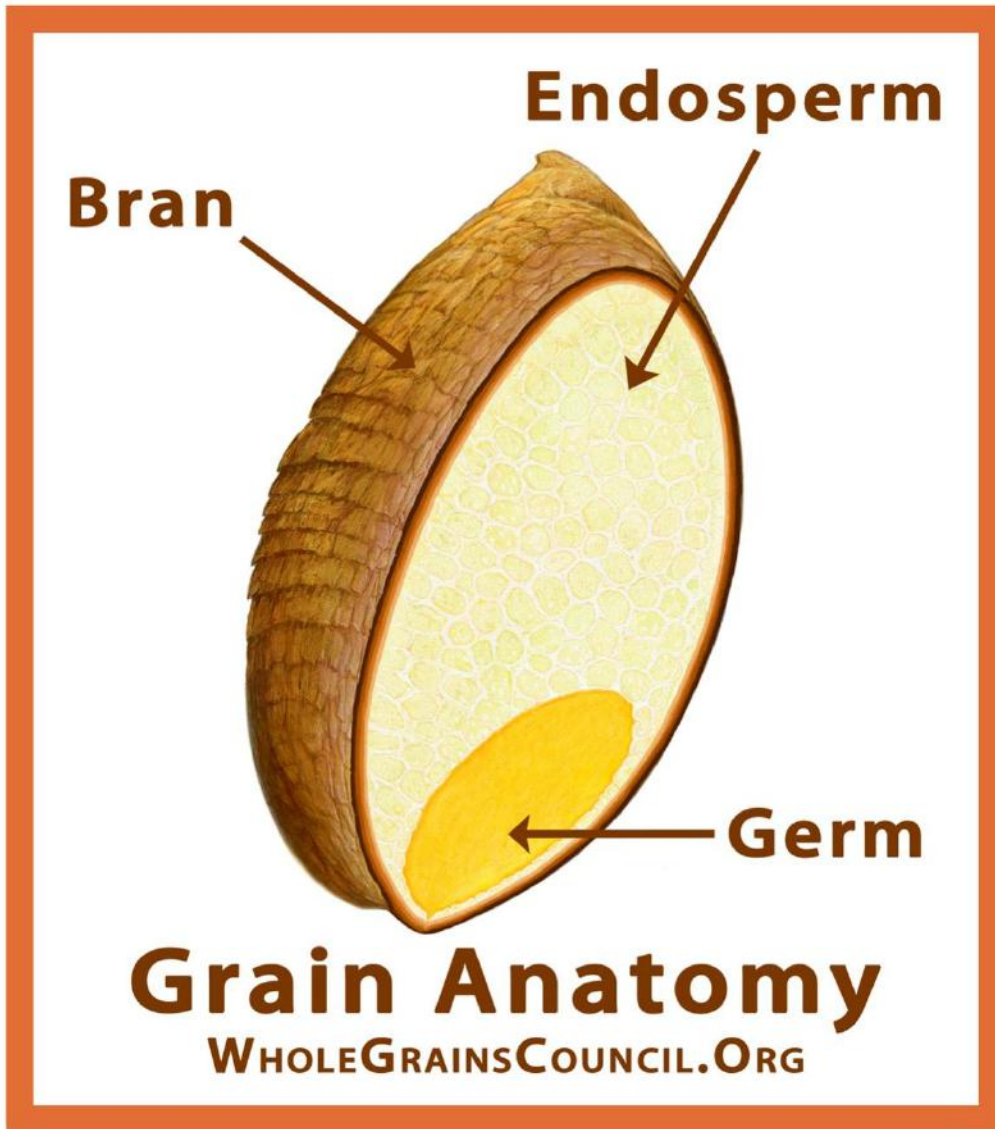
Check for whole grains by scanning the ingredient list on a food label. Look for the words whole or whole grain before the name of the grain e.g., wheat, oats, corn, rice. It should be the first ingredient. Look for whole grain descriptors such as bulgur, buckwheat, popcorn, brown rice, wild rice, millet, quinoa and whole oats.

**INGREDIENTS:** WHOLE GRAIN OATS, (INCLUDES THE OAT BRAN), MODIFIED CORN STARCH, WHEAT STARCH, SUGAR, SALT, OAT FIBER, TRISODIUM PHOSPHATE, CALCIUM CARBONATE, VITAMIN E (MIXED TOCOPHERALS) ADDED TO PRESERVE FRESHNESS. VITAMINS AND MINERALS: IRON AND ZINC.

Handout for Chapter 1, Lesson 10: Make Half Your Grains Whole

## What Is A Whole Grain?

To download the original graphic, or read more about whole grain, go to <http://www.wholegrainscouncil.org>



Handout for Chapter 1, Lesson 10: Make Half Your Grains Whole

## Choosing Whole-Grain Foods

To download the original handout, go to <https://choosemyplate-prod.azureedge.net/sites/default/files/tentips/DGTipsheet22ChoosingWholeGrainFoods.pdf>



United States Department of Agriculture

**10  
tips**  
Nutrition  
Education Series



**MyPlate  
MyWins**

Based on the  
**Dietary  
Guidelines  
for Americans**

## Choosing whole-grain foods

**Whole grains are important sources of nutrients such as zinc, magnesium, B vitamins, and fiber.** There are many choices available to make half your grains whole grains. But whole-grain foods should be handled with care. Over time and if not properly stored, oils in whole grains can cause spoilage. Consider these tips to select whole-grain products and keep them fresh to eat.

### 1 Search the label

Whole grains can be an easy choice when preparing meals. Choose whole-grain breads, breakfast cereals, and pastas. Look at the Nutrition Facts labels and ingredients lists to find choices lower in sodium, saturated fat, and added sugars.



### 2 Look for the word "whole" at the beginning of the ingredients list

Some whole-grain ingredients include whole oats, whole-wheat flour, whole-grain corn, whole-grain brown rice, and whole rye. Foods that say "multi-grain," "100% wheat," "high fiber," or are brown in color may not be a whole-grain product.

### 3 Choose whole grains at school

Prepare meals and snacks with whole grains at home so your kids are more likely to choose whole-grain foods at school.



### 4 Find the fiber on label

If the product provides at least 3 grams of fiber per serving, it is a good source of fiber. If it contains 5 or more grams of fiber per serving, it is an excellent source of fiber.

### 5 Is gluten in whole grains?

People who can't eat wheat gluten can eat whole grains if they choose carefully. There are many whole-grain products, such as buckwheat, certified gluten-free oats or oatmeal, popcorn, brown rice, wild rice, and quinoa that fit gluten-free diet needs.

### 6 Check for freshness

Buy whole-grain products that are tightly packaged and well sealed. Grains should always look and smell fresh. Also, check the expiration date and storage guidelines on the package.

### 7 Keep a lid on it

When storing whole grains from bulk bins, use containers with tight-fitting lids and keep in a cool, dry location. A sealed container is important for maintaining freshness and reducing bug infestations.



### 8 Buy what you need

Purchase smaller quantities of whole-grain products to reduce spoilage. Most grains in sealed packaging can be kept in the freezer.

### 9 Wrap it up

Whole-grain bread is best stored at room temperature in its original packaging, tightly closed with a quick-lock or twist tie. The refrigerator will cause bread to lose moisture quickly and become stale. Properly wrapped bread will store well in the freezer.



### 10 What's the shelf life?

Since the oil in various whole-grain flours differs, the shelf life varies too. Most whole-grain flours keep well in the refrigerator for 2 to 3 months and in the freezer for 6 to 8 months. Cooked brown rice can be refrigerated 3 to 5 days and can be frozen up to 6 months.

Handout for Chapter 1, Lesson 10: Make Half Your Grains Whole

## Making A Model Of The Digestive System

### Supplies:

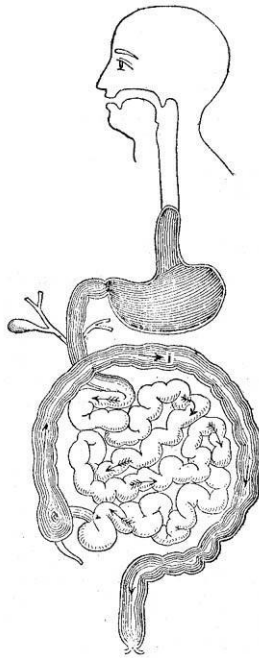
100-foot length of clothesline cord, ½ gallon plastic milk container, marker, masking or duct tape, plastic teeth

### Instructions:

You will be making a model of the digestive system.

1. Attach the teeth to one end of a 10-inch cord.
2. Attach the other end of the cord to the open end of a ½ gallon container for the esophagus.
3. Divide the clothesline into three equal pieces.
4. At the other end of the container, cut an opening and extend from it the three pieces of rope, which, when braided, will represent the intestines.
5. Measure and mark a spot 20 feet down the length for the small intestine.
6. Color or wrap with tape the remaining length of rope to represent the large intestine.

When finished, the entire intestine should measure approximately 30 feet.



Handout for Chapter 1, Lesson 10: Make Half Your Grains Whole

## How Many Grains?



# How Many Grains?

This chart shows how much to eat from the Grains Group. This amount is right for persons who get less than 30 minutes of moderate physical activity each day. Young people who are more active may need to eat more food to meet their calorie (energy) needs. Individual needs vary, so use this as a general guide to food intake.

Group	Age	Daily Recommendation	Daily Minimum Amount of Whole Grains
Children	4 to 8 years old	4 to 5 ounces	2 to 2 ½ ounces
Girls	9 to 13 years old	5 ounces	3 ounce
	14 to 18 years old	6 ounces	3 ounce
Boys	9 to 13 years old	6 ounces	3 ounce
	14 to 18 years old	7 ounces	3 ½ ounce

### What counts as an ounce of grains?

In general, 1 slice of bread, 1 cup of ready-to-eat cereal, or ½ cup of cooked rice, cooked pasta, or cooked cereal each counts as 1-ounce from the grains group.

#### Here are a few more examples:

1 mini bagel ½ English muffin		1 6-inch tortilla 1 packet instant oatmeal	
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Handout for Chapter 1, Lesson 10: Make Half Your Grains Whole

## Recipe: Bread In A Bag

### *Recipe*

#### **Bread In A Bag**

##### **UTENSILS**

1 zip-lock heavy duty freezer baggie (gallon size)  
Measuring spoons  
Measuring cups (dry and liquid)  
Rolling pin (optional)  
Bread pans or foil disposable pans  
Cooking spray  
Large shallow pan  
Baking sheet

##### **INGREDIENTS**

2 cups all-purpose flour  
1 package rapid-rise yeast  
3 tablespoons sugar  
3 tablespoons nonfat dry milk  
1 teaspoon salt  
1 cup hot water (125 to 130 °F)  
3 tablespoons vegetable oil  
1 cup whole wheat flour  
Boiling water

##### **DIRECTIONS**

Combine 1 cup all-purpose flour, undissolved yeast, sugar, dry milk, and salt in the 1-gallon heavy duty freezer bag with zipper-lock. Squeeze upper part of bag to force out air. Shake and work bag with fingers to blend ingredients. Add hot water and oil to dry ingredients. Reseal bag. Mix by working bag with fingers. Add whole wheat flour; reseal bag and mix thoroughly. Gradually add enough remaining all-purpose flour to make a stiff dough that pulls away from bag.

On floured surface, knead dough 2 to 4 minutes, until smooth and elastic. Cover dough; rest 10 minutes. After 10 minutes, roll dough to 12 x 7-inch rectangle. Roll up from narrow end. Pinch edges and ends to seal. Place in oiled 8 ½ x 4 ½ x 2 ¼-inch glass loaf pan; cover. Place large shallow pan on counter half filled with boiling water. Place baking sheet over shallow pan; let dough rise 20 minutes or until double in size. At this point, bread can be taken home to be baked at 375°F for 25 minutes or until done. Remove from pan and cool on wire rack. Slice with serrated knife to serve.

Handout for Chapter 2, Lesson 1: Calories In – Calories Out

## Calories Burned During One Hour Of Exercise

Table 1 = 75 lbs

Table 2 = 100 lbs

Table 3 = 130 – 190 lbs

The number of calories burned during exercise is affected by body weight, intensity of workout, conditioning level and metabolism. Calories burned per hour are listed below for the example body weights of 75, 100, 130, 155 and 190 pounds. Source: <http://www.shapefit.com>.

**TABLE 1 - 75 LBS CALORIES BURNED DURING ONE HOUR OF EXERCISE**

<b>Gym and Home Activities</b>			
Aerobics: low impact	198	Aerobics: high impact	252
Aerobics, Step: low impact	252	Aerobics, Step: high impact	360
Aerobics: water	144	Bicycling, Stationary: moderate	252
Bicycling, Stationary: vigorous	378	Circuit Training: general	288
Rowing, Stationary: moderate	252	Rowing, Stationary: vigorous	306
Ski Machine: general	342	Stair Step Machine: general	216
Weight Lifting: general	108	Weight Lifting: vigorous	216
<b>Training Activities</b>			
Basketball: playing a game	288	Basketball: wheelchair	234
Bicycling: BMX or mountain	306	Bicycling: 12-13.9 mph	288
Bicycling: 14-15.9 mph	360	Boxing: sparring	324
Football: competitive	324	Football: touch, flag, general	288
Frisbee	108	Golf: carrying clubs	198
Golf: using cart	126	Gymnastics: general	144
Handball: general	432	Hiking: cross-country	216
Horseback Riding: general	144	Ice Skating: general	252
Martial Arts: general	360	Racquetball: competitive	360
Racquetball: casual, general	252	Rock Climbing: ascending	396
Rock Climbing: repelling	288	Rollerblade Skating	252
Rope Jumping	360	Running: 5 mph (12 min/mile)	288
Running: 5.2 mph (11.5 min/mile)	324	Running: 6 mph (10 min/mile)	360
Running: 6.7 mph (9 min/mile)	396	Running: 7.5 mph (8 min/mile)	450
Running: 8.6 mph (7 min/mile)	522	Running: 10 mph (6 min/mile)	594
Running: pushing wheelchair, marathon wheeling	288	Running: cross-country	324
Skiing: cross-country	288	Skiing: downhill	216
Snow Shoeing	288	Softball: general play	180
Swimming: general	216	Tennis: general	252
Volleyball: non-competitive, general play	108	Volleyball: competitive, gymnasium play	144
Volleyball: beach	288	Walk: 3.5 mph (17 min/mi)	144

**TABLE 1 - 75 LBS CALORIES BURNED DURING ONE HOUR OF EXERCISE**

Walk: 4 mph (15 min/mi)	162	Walk: 4.5 mph (13 min/mi)	180
Walk/Jog: jog <10 min.	216	Water Skiing	216
Water Polo	360	Whitewater: rafting, kayaking	180
<b>Daily Life Activities</b>			
Gardening: general	162	Housecleaning: general	126
Mowing Lawn: push, hand	198	Mowing Lawn: push, power	162
Children's Games: 4-square, etc.	180	Raking Lawn	144
Shoveling Snow: by hand	216	Operate Snow Blower: walking	162

**TABLE 2 – 100 LBS CALORIES BURNED DURING ONE HOUR OF EXERCISE**

<b>Gym and Home Activities</b>			
Aerobics: low impact	264	Aerobics: high impact	336
Aerobics, Step: low impact	336	Aerobics, Step: high impact	480
Aerobics: water	192	Bicycling, Stationary: moderate	336
Bicycling, Stationary: vigorous	504	Circuit Training: general	384
Rowing, Stationary: moderate	336	Rowing, Stationary: vigorous	408
Ski Machine: general	456	Stair Step Machine: general	288
Weight Lifting: general	144	Weight Lifting: vigorous	288
<b>Training Activities</b>			
Basketball: playing a game	384	Basketball: wheelchair	312
Bicycling: BMX or mountain	408	Bicycling: 12-13.9 mph	384
Bicycling: 14-15.9 mph	480	Boxing: sparring	432
Football: competitive	432	Football: touch, flag, general	384
Frisbee	144	Golf: carrying clubs	264
Golf: using cart	168	Gymnastics: general	192
Handball: general	576	Hiking: cross-country	288
Horseback Riding: general	192	Ice Skating: general	336
Martial Arts: general	480	Racquetball: competitive	480
Racquetball: casual, general	336	Rock Climbing: ascending	528
Rock Climbing: repelling	384	Rollerblade Skating	336
Rope Jumping	480	Running: 5 mph (12 min/mile)	384
Running: 5.2 mph (11.5 min/mile)	432	Running: 6 mph (10 min/mile)	480
Running: 6.7 mph (9 min/mile)	528	Running: 7.5 mph (8 min/mile)	600
Running: 8.6 mph (7 min/mile)	696	Running: 10 mph (6 min/mile)	792
Running: pushing wheelchair, marathon wheeling	384	Running: cross-country	432
Skiing: cross-country	384	Skiing: downhill	288
Snow Shoeing	384	Softball: general play	240
Swimming: general	288	Tennis: general	336
Volleyball: non-competitive,		Volleyball: competitive,	

general play	144	gymnasium play	192
Volleyball: beach	384	Walk: 3.5 mph (17 min/mi)	192
Walk: 4 mph (15 min/mi)	216	Walk: 4.5 mph (13 min/mi)	240
Walk/Jog: jog <10 min.	288	Water Skiing	288
Water Polo	480	Whitewater: rafting, kayaking	240
<b>Daily Life Activities</b>			
Gardening: general	216	Housecleaning: general	168
Mowing Lawn: push, hand	264	Mowing Lawn: push, power	216
Children's Games: 4-square, etc.	240	Raking Lawn	192
Shoveling Snow: by hand	288	Operate Snow Blower: walking	216

<b>Gym &amp; Home Activities</b>	<b>130 lbs</b>	<b>155 lbs</b>	<b>190 lbs</b>
Aerobics, general	354	422	518
Aerobics, high impact	413	493	604
Aerobics, low impact	295	352	431
Archery (non-hunting)	207	246	302
Automobile repair	177	211	259
Backpacking, general	413	493	604
Badminton, competitive	413	493	604
Badminton, social, general	266	317	388
Basketball, game	472	563	690
Basketball, non-game, general	354	422	518
Basketball, officiating	413	493	604
Basketball, shooting baskets	266	317	388
Basketball, wheelchair	384	457	561
Bicycling, <10mph, leisure	236	281	345
Bicycling, >20mph, racing	944	1126	1380
Bicycling, 10-11.9mph, light	354	422	518
Bicycling, 12-13.9mph, moderate	472	563	690
Bicycling, 14-15.9mph, vigorous	590	704	863
Bicycling, 16-19mph, very fast, racing	708	844	1035
Bicycling, BMX or mountain	502	598	733
Bicycling, stationary, general	295	352	431
Bicycling, stationary, light	325	387	474
Bicycling, stationary, moderate	413	493	604
Bicycling, stationary, very light	177	211	259
Bicycling, stationary, very vigorous	738	880	1078
Bicycling, stationary, vigorous	620	739	906
Billiards	148	176	216

Bowling	177	211	259
Boxing, in ring, general	708	844	1035
Boxing, punching bag	354	422	518
Boxing, sparring	531	633	776
Broomball	413	493	604
Calisthenics, home, vigorous	472	563	690
Calisthenics, home, light/moderate	266	317	388
Canoeing, on camping trip	236	281	345
Canoeing, rowing, >6 mph, vigorous	708	844	1035
Canoeing, rowing, crewing, competition	708	844	1035
Canoeing, rowing, light	177	211	259
Canoeing, rowing, moderate	413	493	604
Carpentry, general	207	246	302
Carrying heavy loads, such as bricks	472	563	690
Child care: sitting/kneeling-dressing	177	211	259
Child care: standing-dressing, feeding	207	246	302
Circuit training, general	472	563	690
Cleaning, heavy, vigorous	266	317	388
Cleaning, house, general	207	246	302
Cleaning, light, moderate	148	176	216
Coaching: football, soccer, basketball	236	281	345
Construction, outside, remodeling	325	387	474
Cooking or food preparation	148	176	216
Cricket (batting, bowling)	295	352	431
Croquet	148	176	216
Curling	236	281	345
Dancing, aerobic, ballet or modern	354	422	518
Dancing, ballroom, fast	325	387	474
Dancing, ballroom, slow	177	211	259
Dancing, general	266	317	388
Darts, wall or lawn	148	176	216
Diving, springboard or platform	177	211	259
Electrical work, plumbing	207	246	302
Farming, baling hay, cleaning barn	472	563	690
Farming, milking by hand	177	211	259
Farming, shoveling grain	325	387	474
Fencing	354	422	518
Fishing from boat, sitting	148	176	216
Fishing from river bank, standing	207	246	302
Fishing in stream, in waders	354	422	518
Fishing, general	236	281	345
Fishing, ice, sitting	118	141	173

Football or baseball, playing catch	148	176	216
Football, competitive	531	633	776
Football, touch, flag, general	472	563	690
Frisbee playing, general	177	211	259
Frisbee, ultimate	207	246	302
Gardening, general	295	352	431
Golf, carrying clubs	325	387	474
Golf, general	236	281	345
Golf, miniature or driving range	177	211	259
Golf, pulling clubs	295	352	431
Golf, using power cart	207	246	302
Gymnastics, general	236	281	345
Hackey sack	236	281	345
Handball, general	708	844	1035
Handball, team	472	563	690
Health club exercise, general	325	387	474
Hiking, cross country	354	422	518
Hockey, field	472	563	690
Hockey, ice	472	563	690
Horse grooming	354	422	518
Horse racing, galloping	472	563	690
Horseback riding, general	236	281	345
Horseback riding, trotting	384	457	561
Horseback riding, walking	148	176	216
Hunting, general	295	352	431
Jai alai	708	844	1035
Jogging, general	413	493	604
Judo, karate, kick boxing, Tae Kwan Do	590	704	863
Kayaking	295	352	431
Kickball	413	493	604
Lacrosse	472	563	690
Marching band, playing instrument	236	281	345
Marching, rapidly, military	384	457	561
Moto-cross	236	281	345
Moving furniture, household	354	422	518
Moving household items-upstairs	531	633	776
Moving household items-carrying	413	493	604
Mowing lawn, general	325	387	474
Mowing lawn, riding mower	148	176	216
Music playing, cello, flute, horn	118	141	173
Music playing, drums	236	281	345
Music playing, guitar, classical (sitting)	118	141	173

Music playing, guitar, rock/roll (stand)	177	211	259
Music playing, piano, organ, violin	148	176	216
Paddleboat	236	281	345
Painting, papering, plastering, scraping	266	317	388
Polo	472	563	690
Pushing or pulling stroller with child	148	176	216
Race walking	384	457	561
Racquetball, casual, general	413	493	604
Racquetball, competitive	590	704	863
Raking lawn	236	281	345
Rock climbing, ascending rock	649	774	949
Rock climbing, rappelling	472	563	690
Rope jumping, fast	708	844	1035
Rope jumping, moderate, general	590	704	863
Rope jumping, slow	472	563	690
Rowing, stationary, light	561	669	819
Rowing, stationary, moderate	413	493	604
Rowing, stationary, very vigorous	708	844	1035
Rowing, stationary, vigorous	502	598	733
Rugby	590	704	863
Running, 10 mph (6 min mile)	944	1126	1380
Running, 10.9 mph (5.5 min mile)	1062	1267	1553
Running, 5 mph (12 min mile)	472	563	690
Running, 5.2 mph (11.5 min mile)	531	633	776
Running, 6 mph (10 min mile)	590	704	863
Running, 6.7 mph (9 min mile)	649	774	949
Running, 7 mph (8.5 min mile)	679	809	992
Running, 7.5mph (8 min mile)	738	880	1078
Running, 8 mph (7.5 min mile)	797	950	1165
Running, 8.6 mph (7 min mile)	826	985	1208
Running, 9 mph (6.5 min mile)	885	1056	1294
Running, cross country	531	633	776
Running, general	472	563	690
Running, in place	472	563	690
Running, on a track, team practice	590	704	863
Running, stairs, up	885	1056	1294
Running, training, pushing wheelchair	472	563	690
Running, wheeling, general	177	211	259
Sailing, windsurfing, general	177	211	259
Sailing, in competition	295	352	431
Scrubbing floors, on hands and knees	325	387	474
Shoveling snow, by hand	354	422	518

Shuffleboard, lawn bowling	177	211	259
Sitting-playing with child/children-light	148	176	216
Skateboarding	295	352	431
Skating, ice, 9 mph or less	325	387	474
Skating, ice, general	413	493	604
Skating, ice, rapidly, > 9 mph	531	633	776
Skating, ice, speed, competitive	885	1056	1294
Skating, roller	413	493	604
Ski jumping (climb up carrying skis)	413	493	604
Ski machine, general	561	669	819
Skiing, cross-country, racing	826	985	1208
Skiing, cross-country, moderate	472	563	690
Skiing, cross-country, slow or light	413	493	604
Skiing, cross-country, uphill, max	974	1161	1423
Skiing, cross-country, vigorous	531	633	776
Skiing, downhill, light	295	352	431
Skiing, downhill, moderate	354	422	518
Skiing, downhill, vigorous , racing	472	563	690
Skiing, snow, general	413	493	604
Skiing, water	354	422	518
Ski-mobiling, water	413	493	604
Skin diving, scuba diving, general	413	493	604
Sledding, bobsledding, luge	413	493	604
Snorkeling	295	352	431
Snow shoeing	472	563	690
Snowmobiling	207	246	302
Soccer, casual, general	413	493	604
Soccer, competitive	590	704	863
Softball or baseball, fast or slow pitch	295	352	431
Softball, officiating	354	422	518
Squash	708	844	1035
Stair-treadmill ergometer, general	354	422	518
Standing-packing/unpacking boxes	207	246	302
Stretching, hatha yoga	236	281	345
Surfing, body or board	177	211	259
Sweeping garage, sidewalk	236	281	345
Swimming laps- fast-vigorous	590	704	863
Swimming laps, freestyle-light	472	563	690
Swimming, backstroke, general	472	563	690
Swimming, breaststroke, general	590	704	863
Swimming, butterfly, general	649	774	949
Swimming, leisurely, general	354	422	518

Swimming, sidestroke, general	472	563	690
Swimming, synchronized	472	563	690
Swimming, treading water, vigorous	590	704	863
Swimming, treading water, moderate	236	281	345
Table tennis, ping pong	236	281	345
Tai chi	236	281	345
Teaching aerobics class	354	422	518
Tennis, doubles	354	422	518
Tennis, general	413	493	604
Tennis, singles	472	563	690
Unicycling	295	352	431
Volleyball, beach	472	563	690
Volleyball, competitive, in gymnasium	236	281	345
Volleyball, noncompetitive	177	211	259
Walk/run-playing with child-moderate	236	281	345
Walk/run-playing with child-vigorous	295	352	431
Walking, 2.0 mph, slow pace	148	176	216
Walking, 3.0 mph, mod. pace	207	246	302
Walking, 3.5 mph, uphill	354	422	518
Walking, 4.0 mph, very brisk pace	236	281	345
Walking, carrying infant or 15-lb load	207	246	302
Walking, grass track	295	352	431
Walking, upstairs	472	563	690
Walking, using crutches	236	281	345
Wallyball, general	413	493	604
Water aerobics, water calisthenics	236	281	345
Water polo	590	704	863
Water volleyball	177	211	259
Weight lifting/body building, vigorous	354	422	518
Weight lifting, light or moderate	177	211	259
Whitewater rafting/kayaking/canoeing	295	352	431

Handout for Chapter 2, Lesson 1: Calories In – Calories Out

## **Recipe: MyPlate Salsa**

### *Recipe*

#### **MyPlate Salsa**

##### **UTENSILS**

Cutting knife  
Cutting board  
Measuring cups/spoons  
Mixing/serving spoons  
Mixing/serving bowl  
Can opener

##### **INGREDIENTS**

1 large can tomatoes, chopped  
1 clove garlic, minced  
1 green pepper, finely chopped  
2 tablespoons lime juice  
4 green onions, finely chopped  
1 can corn, drained  
¼ cup chopped cilantro  
1 can black beans, rinsed  
1 small jalapeno, finely chopped  
Low-fat corn or whole grain tortilla chips

##### **DIRECTIONS**

Combine all ingredients. Serve with tortilla chips.

Handout for Chapter 2, Lesson 2: Nutrient Knowledge

**Sample Label for Muffins**

<b>Nutrition Facts</b>			
12 servings per container			
<b>Serving size</b>		<b>1/2 muffin (114g)</b>	
	<b>Per 1/2 muffin</b>	<b>Per 1 muffin</b>	
<b>Calories</b>	<b>380</b>	<b>760</b>	<b>% DV*</b>
			<b>% DV*</b>
<b>Total Fat</b>	16g <b>21%</b>	32g <b>41%</b>	
Saturated Fat	3g <b>15%</b>	6g <b>30%</b>	
<i>Trans Fat</i>	0g	0g	
<b>Cholesterol</b>	50mg <b>17%</b>	100mg <b>33%</b>	
<b>Sodium</b>	480mg <b>21%</b>	960mg <b>42%</b>	
<b>Total Carb.</b>	56g <b>20%</b>	112g <b>41%</b>	
Dietary Fiber	2g <b>7%</b>	4g <b>14%</b>	
Total Sugars	32g	64g	
Incl. Added Sugars	30g <b>60%</b>	60g <b>120%</b>	
<b>Protein</b>	3g	6g	
Vitamin D	0.1mcg 0%	0.2mcg 2%	
Calcium	40mg 4%	80mg 6%	
Iron	2mg 10%	4mg 20%	
Potassium	190mg 4%	380mg 8%	

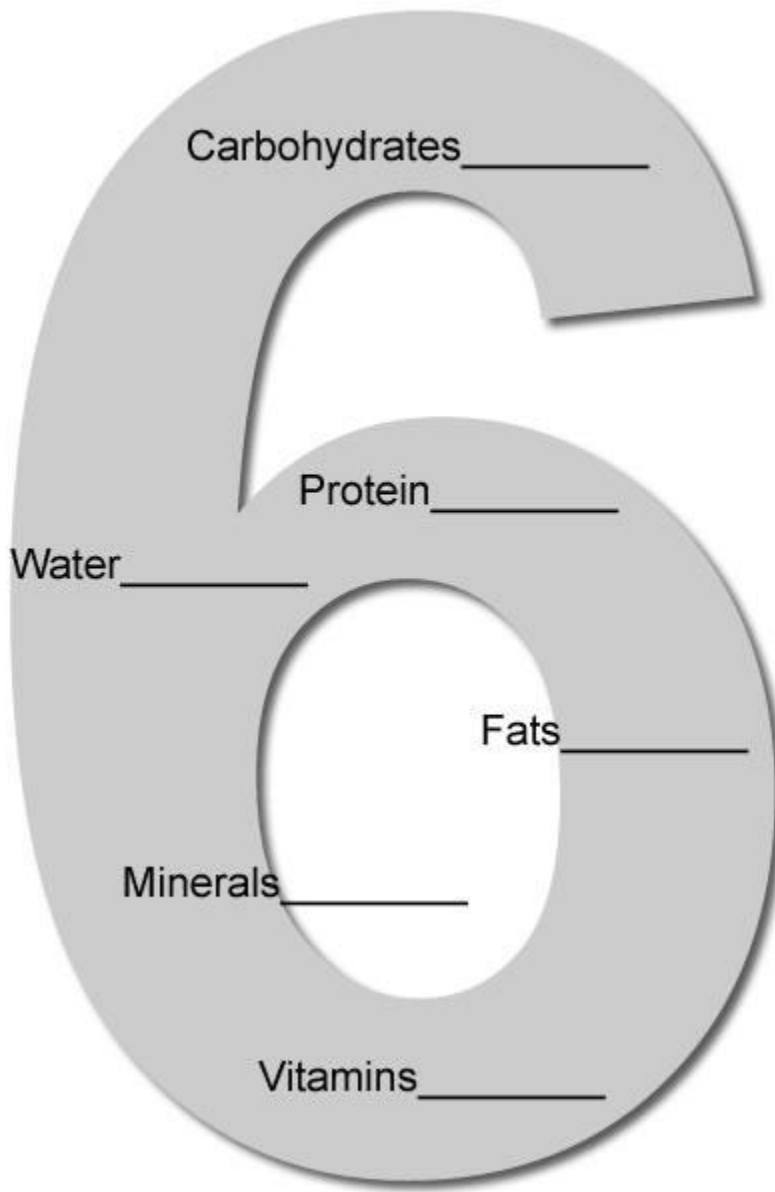
\* The % Daily Value (DV) tells you how much a nutrient in a serving of food contributes to a daily diet. 2,000 calories a day is used for general nutrition advice.

Handout for Chapter 2, Lesson 2: Nutrient Knowledge

## The Big 6

# The Big 6

Name of Food \_\_\_\_\_



Handout for Chapter 2, Lesson 3: Break It Up – Breakfast First!

### **Building Better Breakfasts**

Plan three easy, nutritious, breakfasts that you can fix by yourself. Make sure you include at least three different food groups in each one!

<b>Breakfast 1</b>	
<b>Breakfast 2</b>	
<b>Breakfast 3</b>	

Handout for Chapter 2, Lesson 3: Break It Up – Breakfast First!

## Recipe: Four Fun Breakfasts

### *Recipes*

#### Four Fun Breakfasts

##### UTENSILS

Cutting board  
Sharp knife  
Measuring cups/spoons  
Microwave oven  
Blender

RECIPE	INGREDIENTS	DIRECTIONS
<b>Fruit and Nut Oatmeal</b>	<ul style="list-style-type: none"> <li>¼ cup dried cranberries</li> <li>2 tablespoons sliced almonds</li> <li>Quick oatmeal</li> <li>Water</li> </ul>	Add the cranberries and almonds (or any fruit and nut) to quick oatmeal and water. Microwave for sixty seconds or as directed on quick oatmeal package.
<b>Breakfast Smoothie</b>	<ul style="list-style-type: none"> <li>½ cup low-fat milk (1% or fat free)</li> <li>3-5 frozen strawberries</li> <li>Banana</li> </ul>	Place the milk, strawberries, and half a banana in a blender. Blend for 30 seconds. Enjoy your drink with a whole wheat bagel. Substitute any fresh or frozen fruits or 100% fruit juice.
<b>Banana Dogs</b>	<ul style="list-style-type: none"> <li>1 tablespoon peanut butter</li> <li>Whole grain hot dog bun</li> <li>Banana</li> <li>1 tablespoon raisins</li> <li>Optional: whole grain cereal</li> </ul>	Spread the peanut butter on a whole grain hot dog bun. Add a banana and sprinkle with raisins. Instead of using a hot dog bun you may spread a banana with peanut butter and roll it in whole grain cereal or a whole wheat tortilla.
<b>Breakfast Taco</b>	<ul style="list-style-type: none"> <li>2 tablespoons grated Monterey Jack cheese</li> <li>Corn tortilla</li> <li>Salsa</li> </ul>	Sprinkle the Monterey Jack cheese over a corn tortilla. Fold tortilla in half and microwave for twenty seconds. Top with salsa.

Handout for Chapter 2, Lesson 3: Break It Up – Breakfast First!

## Recipe: Banana Split Cereal

### *Recipe*

#### **Banana Split Cereal**

##### **UTENSILS**

Cutting knife  
Cutting board  
Measuring cups/spoons  
Mixing/serving spoons  
Serving bowl  
Colander

##### **INGREDIENTS**

1 small ripe banana  
Blueberries (or other fresh fruit)  
½ cup nonfat vanilla yogurt  
½ cup whole grain cereal (Cheerios, Wheaties, Grape Nuts or Bran Flakes)

##### **DIRECTIONS**

Peel banana and slice it lengthwise from tip to tip. Wash blueberries by placing in a colander and running water over them. If you use other fruits, wash them and cut into small pieces. Sprinkle the cereal on top of the yogurt. Arrange the banana halves on either side of the yogurt. Sprinkle the top with the blueberries or other fruit. Makes 1 breakfast serving or 4-6 samples.

Handout for Chapter 2, Lesson 4: Snack Attack

## MyPlate Snack Tips for Kids: 10 Tips for Making Great Tasting Snacks

If you're a budding chef, it's easy to create a great tasting snack! Below are some quick ideas that you can make on your own. [https://choosemyplate-prod.azureedge.net/sites/default/files/audiences/Tipsheet1\\_MakingGreatTastingSnacks.pdf](https://choosemyplate-prod.azureedge.net/sites/default/files/audiences/Tipsheet1_MakingGreatTastingSnacks.pdf).



**MyPlate Kids' Place**

# MyPlate snack tips for kids

## 10 tips for making great tasting snacks

**If you're a budding chef, it's easy to create a great tasting snack! Below are some quick ideas that you can make on your own.**



**1 create a yogurt sundae!**  
Top plain, low-fat or fat-free yogurt with fresh, frozen, or canned fruit, like bananas, strawberries, or peaches. Sprinkle whole-grain cereal on top for crunch.



**2 make pita pockets**  
Stuff a small whole-wheat pita with sliced bell peppers, salsa, and a slice of low-fat cheese. Melt in the microwave for 15-20 seconds.



**3 jazz up your favorite cereal**  
Make a trail mix! Stir 1/4 cup of unsalted nuts, 1/4 cup of dried raisins or cranberries, and 1/4 cup of whole-grain cereal together.



**4 make a fruit sandwich**  
Cut an apple into thin slices. Spread peanut butter or almond butter between two slices to create "apple sandwiches."



**5 dip your veggies**  
Create veggie treats by dipping slices of cucumbers, peppers, and carrots in a low-fat salad dressing or hummus.



**6 pack an afterschool snack**  
For a healthy afterschool snack, keep a fruit cup packed in 100% juice or water in your bag. Some fresh fruit, like bananas and oranges, are also easy to pack and eat any time.



**7 try a piece of cheesy toast!**  
Toast a slice of whole-wheat bread and top with a slice of your favorite low-fat cheese.



**8 freeze your fruit**  
For a frozen treat on hot days, try freezing grapes or bananas! Don't forget to peel bananas and pull grapes from the stem before freezing.



**9 power up with 'roll-ups'**  
Roll a slice of low-salt deli turkey or ham around an apple wedge or around a slice of low-fat cheese.



**10 build a fruit salad**  
Mix your favorite sliced fruits such as pineapple, grapes, and melon.



United States Department of Agriculture

Go to [www.ChooseMyPlate.gov](http://www.ChooseMyPlate.gov) for more information.

MPAK-1 (8-12 years old)  
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Handout for Chapter 1, Lesson 2: MyPlate: The Beginning Challenge

## Choose the Foods You Need to Grow: 10 Tips for Teen Guys

Feed your growing body by making better food choices today as a teen and as you continue to grow into your twenties. Make time to be physically active every day to help you be fit and healthy as you grow. From the USDA 10 Tips Nutrition Education Series at <https://www.choosemyplate.gov/ten-tips-choose-the-foods-you-need-to-grow>.

1. **Get over the idea of magic foods** There are no magic foods to eat for good health. Teen guys need to eat foods such as vegetables, fruits, whole grains, protein foods, and fat-free or low-fat dairy foods. Choose protein foods like unsalted nuts, beans, lean meats, and fish. SuperTracker will show if you are getting the nutrients you need for growth.
2. **Always hungry?** Whole grains that provide fiber can give you a feeling of fullness and provide key nutrients. Choose half your grains as whole grains. Eat whole-wheat breads, pasta, and brown rice instead of white bread, rice, or other refined grains. Also, choose vegetables and fruits when you need to “fill-up.”
3. **Keep water handy** Water is a better option than many other drink choices. Keep a water bottle in your backpack and at your desk to satisfy your thirst. Skip soda, fruit drinks, and energy and sports drinks. They are sugar-sweetened and have few nutrients.
4. **Make a list of favorite foods** Like green apples more than red apples? Ask your family food shopper to buy quick-to-eat foods for the fridge like mini-carrots, apples, oranges, low-fat cheese slices, or yogurt. And also try dried fruit; unsalted nuts; whole-grain breads, cereal, and crackers; and popcorn.
5. **Start cooking often** Get over being hungry by fixing your own snacks and meals. Learn to make vegetable omelets, bean quesadillas, or a batch of spaghetti. Prepare your own food so you can make healthier meals and snacks. Microwaving frozen pizzas doesn't count as home cooking.
6. **Skip foods that can add unwanted pounds** Cut back on calories by limiting fatty meats like ribs, bacon, and hot dogs. Some foods are just occasional treats like pizza, cakes, cookies, candies, and ice cream. Check out the calorie content of sugary drinks by reading the Nutrition Facts label. Many 12-ounce sodas contain 10 teaspoons of sugar.
7. **Learn how much food you need** Teen guys may need more food than most adults, teen girls, and little kids. Go to [SuperTracker.usda.gov](http://SuperTracker.usda.gov). It shows how much food you need based on your age, height, weight, and activity level. It also tracks progress towards fitness goals.
8. **Check Nutrition Facts labels** To grow, your body needs vitamins and minerals. Calcium and vitamin D are especially important for your growing bones. Read Nutrition Facts labels for calcium. Dairy foods provide the minerals your bones need to grow.
9. **Strengthen your muscles** Work on strengthening and aerobic activities. Work out at least 10 minutes at a time to see a better you. However, you need to get at least 60 minutes of physical activity every day.
10. **Fill your plate like MyPlate** MyPlate is based on the [Dietary Guidelines for Americans](http://DietaryGuidelinesforAmericans.gov).

Handout for Chapter 1, Lesson 2: MyPlate: The Beginning Challenge

## Eat Smart and Be Active As You Grow: 10 Tips for Teen Girls

Young girls, ages 10 to 19, have a lot of changes going on in their bodies. Building healthier habits will help you — now as a growing teen — and later in life. Growing up means you are in charge of foods you eat and the time you spend being physically active every day. From the USDA 10 Tips Nutrition Education Series at <https://www.choosemyplate.gov/ten-tips-eat-smart-and-be-active-as-you-grow>.

1. **Build strong bones** - A good diet and regular physical activity can build strong bones throughout your life. Choose fat-free or low-fat milk, cheeses, and yogurt to get the vitamin D and calcium your growing bones need. Strengthen your bones three times a week doing activities such as running, gymnastics, and skating.
2. **Cut back on sweets** - Cut back on sugary drinks. Many 12-ounce cans of soda have 10 teaspoons of sugar in them. Drink water when you are thirsty. Sipping water and cutting back on cakes, candies, and sweets helps to maintain a healthy weight
3. **Power up with whole grain** - Fuel your body with nutrient-packed whole-grain foods. Make sure that at least half your grain foods are whole grains such as brown rice, whole-wheat breads, and popcorn.
4. **Choose vegetables rich in color** - Brighten your plate with vegetables that are red, orange, or dark green. Try acorn squash, cherry tomatoes, or sweet potatoes. Spinach and beans also provide vitamins like folate and minerals like potassium that are essential for healthy growth.
5. **Check Nutrition Facts labels for iron** - Read Nutrition Facts labels to find foods containing iron. Most protein foods like meat, poultry, eggs, and beans have iron, and so do fortified breakfast cereals and breads.
6. **Check Nutrition Facts labels for iron** - Read Nutrition Facts labels to find foods containing iron. Most protein foods like meat, poultry, eggs, and beans have iron, and so do fortified breakfast cereals and breads.
7. **Try something new** - Keep healthy eating fun by picking out new foods you've never tried before like lentils, mango, quinoa, or kale.
8. **Make moving part of every event** - Being active makes everyone feel good. Aim for 60 minutes of physical activity each day. Move your body often. Dancing, playing active games, walking to school with friends, swimming, and biking are only a few fun ways to be active. Also, try activities that target the muscles in your arms and legs.
9. **Include all food groups daily** - Use [MyPlate](https://www.choosemyplate.gov) as your guide to include all food groups each day.

**Everyone has different needs** - Get nutrition information based on your age, gender, height, weight, and physical activity level. Use SuperTracker to find your calorie level, choose the foods you need, and track progress toward your goals. Learn more at [www.SuperTracker.usda.gov](http://www.SuperTracker.usda.gov).

Handout for Chapter 2, Lesson 4: Snack Attack

## Recipe: Pita Pizza

### *Recipe*

#### **Pita Pizza**

##### **UTENSILS**

Cutting board  
Sharp knife  
Can opener  
Mixing/serving bowl  
Dinner plate  
Toaster oven or regular oven  
Baking sheet

##### **INGREDIENTS**

4 whole wheat pita bread  
¼ cup low-sodium spaghetti sauce or pizza sauce  
¼ teaspoon dried oregano  
1 cup chopped red or green bell pepper  
1½ cups canned pineapple chunks packed in 100% fruit juice, drained  
1/3 cup chopped lean, low-sodium ham  
¾ cup shredded reduced-fat cheddar cheese

##### **DIRECTIONS**

Heat oven to 400° F. Place pita bread on baking sheet. Spread each pita with 1 tablespoon of spaghetti sauce. Sprinkle with oregano. Top each pita with pepper, pineapple, ham, and cheese. Bake until hot and cheese bubbles, about 5 minutes. Remove pizzas from baking sheet. Place each pizza on a dinner plate and serve. Makes 4 (1 piece) servings.

Handout for Chapter 2, Lesson 5: Vegetarianism in a Nutshell

## Recipe: Tacos

### *Recipe*

#### **Tacos**

##### **UTENSILS**

Measuring cups (dry and liquid)  
Mixing bowls/spoons  
Serving plate  
Saucepan  
Can opener  
Plates  
Bowls  
Cutting boards  
Cutting knives  
Grater

##### **INGREDIENTS**

Miniature taco shells  
1 16-ounce can vegetarian refried beans  
Shredded lettuce  
Finely diced, firm ripe tomatoes  
Grated Cheddar or Monterey Jack cheese or soy cheese  
Mild taco sauce, optional

##### **DIRECTIONS**

Heat the taco shells according to package directions while preparing the filling. Place on a serving plate. Combine the refried beans in a small saucepan with 1/4 cup water. Stir together and cook until warmed through. Transfer all or part of the warmed beans to a serving bowl. Arrange the lettuce, tomatoes, and cheese in individual small serving bowls or in small mounds on a platter. Have everyone fill their tacos with a little of the refried beans, then some lettuce, tomatoes, and cheese. Top taco with a little sauce if desired.

Handout for Chapter 2, Lesson 5: Vegetarianism In a Nutshell

## Recipe: Hummus

### *Recipe*

#### **Hummus**

##### **UTENSILS**

Measuring cups (liquid)  
Measuring spoons  
Mixing bowls/spoons  
Serving plate/bowl  
Can opener  
Cutting boards  
Cutting knives

##### **INGREDIENTS**

15 ounce can chickpeas, rinsed and drained  
 $\frac{3}{4}$  cup water  
 $\frac{1}{2}$  cup Tahini  
 $\frac{3}{4}$  teaspoon salt  
1 clove garlic  
3 tablespoons olive oil  
Freshly ground black pepper  
2 tablespoons fresh parsley leaves, chopped  
2 teaspoons lemon juice  
Pita bread or chips

##### **DIRECTIONS**

In a food processor (or blender) combine first six ingredients and process until smooth. Season with salt and pepper to taste. Refrigerate. When ready to serve stir in remaining 2 teaspoons of lemon juice and chopped parsley. Serve with pita bread or chips.

Handout for Chapter 2, Lesson 5: Vegetarianism In a Nutshell

## Healthy Eating For Vegetarians

To download the original, go to: <https://choosemyplate-prod.azureedge.net/sites/default/files/tentips/DGTipsheet8HealthyEatingForVegetarians.pdf>

**10**  
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# healthy eating for vegetarians

## 10 tips for vegetarians



ChooseMyPlate.gov

**A vegetarian eating pattern can be a healthy option.** The key is to consume a variety of foods and the right amount of foods to meet your calorie and nutrient needs.


**1 think about protein**  
Your protein needs can easily be met by eating a variety of plant foods. Sources of protein for vegetarians include beans and peas, nuts, and soy products (such as tofu, tempeh). Lacto-ovo vegetarians also get protein from eggs and dairy foods.

**6 try different veggie versions**  
A variety of vegetarian products look—and may taste—like their non-vegetarian counterparts but are usually lower in saturated fat and contain no cholesterol. For breakfast, try soy-based sausage patties or links. For dinner, rather than hamburgers, try bean burgers or falafel (chickpea patties).

**2 bone up on sources of calcium**  
Calcium is used for building bones and teeth. Some vegetarians consume dairy products, which are excellent sources of calcium. Other sources of calcium for vegetarians include calcium-fortified soy milk (soy beverage), tofu made with calcium sulfate, calcium-fortified breakfast cereals and orange juice, and some dark-green leafy vegetables (collard, turnip, and mustard greens; and bok choy).



**7 make some small changes at restaurants**  
Most restaurants can make vegetarian modifications to menu items by substituting meatless sauces or non-meat items, such as tofu and beans for meat, and adding vegetables or pasta in place of meat. Ask about available vegetarian options.



**3 make simple changes**  
Many popular main dishes are or can be vegetarian—such as pasta primavera, pasta with marinara or pesto sauce, veggie pizza, vegetable lasagna, tofu-vegetable stir-fry, and bean burritos.

**8 nuts make great snacks**  
Choose unsalted nuts as a snack and use them in salads or main dishes. Add almonds, walnuts, or pecans instead of cheese or meat to a green salad.

**4 enjoy a cookout**  
For barbecues, try veggie or soy burgers, soy hot dogs, marinated tofu or tempeh, and fruit kabobs. Grilled veggies are great, too!

**9 get your vitamin B<sub>12</sub>**  
Vitamin B<sub>12</sub> is naturally found only in animal products. Vegetarians should choose fortified foods such as cereals or soy products, or take a vitamin B<sub>12</sub> supplement if they do not consume any animal products. Check the Nutrition Facts label for vitamin B<sub>12</sub> in fortified products.

**5 include beans and peas**  
Because of their high nutrient content, consuming beans and peas is recommended for everyone, vegetarians and non-vegetarians alike. Enjoy some vegetarian chili, three bean salad, or split pea soup. Make a hummus-filled pita sandwich.



**10 find a vegetarian pattern for you**  
Go to [www.dietaryguidelines.gov](http://www.dietaryguidelines.gov) and check appendices 8 and 9 of the *Dietary Guidelines for Americans, 2010* for vegetarian adaptations of the USDA food patterns at 12 calorie levels.



United States  
Department of Agriculture  
Center for Nutrition  
Policy and Promotion

Go to [www.ChooseMyPlate.gov](http://www.ChooseMyPlate.gov) for more information.

DG TipSheet No. 8  
June 2011  
USDA is an equal opportunity  
provider and employer.

Handout for Chapter 2, Lesson 6: Energy Drinks and Foods

## **Recipe: Homemade Sports Drink**

### *Recipe*

#### **Homemade Sports Drink**

##### **UTENSILS**

1 gallon container  
Liquid measuring cups/spoons  
Mixing spoons  
Can opener

##### **INGREDIENTS**

1 6-ounce can frozen concentrate orange juice (follow instructions on can)  
2 tablespoons lemon juice  
1 tablespoon lime juice  
3/4 teaspoon salt  
Water

##### **DIRECTIONS**

Mix all ingredients, adding enough water to equal one gallon. Refrigerate and use as a refreshment in the coming week.

##### **OPTIONAL**

Try this even easier recipe: 1 cup of orange juice, 1 cup of water and a pinch of salt.

Handout for Chapter 2, Lesson 7: Body Image

## Helping Terry

### *Scenario*

Terry is a 14-year-old girl who lives with her mother and younger brother in an apartment in the city. She helps her family by taking care of her younger brother after school and helping to get dinner ready when her mom gets home from work. Lately, she has been spending a lot of time in front of the television and on social media with her friends.

Terry feels like she isn't getting enough exercise. She also knows that her family has been eating a lot of food that is not very good for them. She wants to make some healthy changes, but changing is so difficult and she's not sure where to start! We are going to help Terry find a way to start on a path to a healthier life.

Handout for Chapter 3, Lesson 1: Selling or Telling

**Finding Good Food on the Internet**



**Finding Good Food on the Internet**

Use a search engine like Google or Yahoo to answer questions and complete the activities below.



Go to [www.google.com](http://www.google.com) or [www.yahoo.com](http://www.yahoo.com) and search for healthy recipes.

**1. Describe two recipes that incorporate at least two vegetables and a whole grain.**

Name of recipe #1:	
Recipe ingredients:	
Name of recipe #2:	
Recipe ingredients:	

**2. Describe a recipe that uses beans instead of meat and includes two vegetables.**

Name of recipe:	
Recipe ingredients:	

**3. Describe a healthy ethnic recipe.**

Name of recipe:	
Recipe ingredients:	

Handout for Chapter 3, Lesson 2: Label Lingo

## **Working On The Muffin Label**

### **STEP 1: THE SERVING SIZE**

- What is the serving size for muffins?
- How many servings are in this product?
- How many muffins do you normally eat?

If you consumed 2 muffins:

- How many calories did you consume?
- How many grams of fat (total fat) did you consume?

### **STEP 2: CALORIES (AND CALORIES FROM FAT)**

- How did you determine the number of calories in 2 muffins?
- Based on your daily calorie needs, could this be considered a low calorie food?

### **STEP 3 & 4: THE NUTRIENTS: HOW MUCH?**

- Which nutrients should we limit?
- Which nutrients are we striving to get enough of?

### **STEP 5: UNDERSTANDING THE FOOTNOTE ON THE BOTTOM OF THE NUTRITION FACTS LABEL**

- All of the information on the Nutrition Facts Label is based on how many calories a day?

Handout for Chapter 3, Lesson 2: Label Lingo

## **Label Scavenger Quest**

1. Which foods in your kitchen are labeled whole grain?
2. Which foods are high in sugar per serving? Is the sugar naturally occurring or added? How do you know?
3. Which foods in your kitchen are foods that are high in the nutrients that you are striving to get more of? For example: calcium, Vitamin A, Vitamin C.
4. Compare labels looking for descriptive words. Check the ingredients list for whole grains. A food is considered a whole grain food if the first ingredient listed is a whole grain.
5. Check for fiber on the label. Remember that 3 grams of fiber per serving is considered good, and 5 or more grams per serving is excellent. Read the ingredients on the cracker, cereal and bread labels.

Handout for Chapter 3, Lesson 3: Media Mania

## Advertising Sells!

What is your favorite television advertisement?

Describe your favorite food advertisement and tell why you like it. The ad can be one you saw on TV, in a magazine, on the radio, on the Internet, etc.

If you like the ad, the marketing company has done its job well. Would you buy their product based on this ad? \_\_\_\_\_Yes \_\_\_\_\_No

What in the ad makes you want to buy the product? Or, if you wouldn't buy it, why not?

Do you think this is a healthful food choice? Why or why not? Does it fit into the MyPlate recommendations?

Does the ad mention anything about the nutritional value of this food product? If so, what does it say?

In what ways does this ad appeal to you and your friends? People are attracted to advertised products for many different reasons. For example, it may:

- Appeal to your sense of health and happiness
- Have an emotional impact
- Appeal to your senses — tastes good, looks good, smells good, etc.
- Save you money
- Offer “freebies”
- Appeal to your need to belong to the group
- Allow you to connect to the celebrity spokesperson
- Clearly be the best choice. The ad reflects the high quality of the product.

Handout for Chapter 3, Lesson 4: Eating Out

## Fast Food Calories - Line 'Em Up

Here are some favorite fast food items and their total calories.

Fast Food Item	Calories
7-Eleven Slurpee	80
Taco Bell Soft Beef Taco	200
Subway Veggie Delite Sub	230
Taco Bell Taco Supreme	260
Dunkin Donut Glazed Donut	260
One 7 Eleven Monterey Jack and Chicken Taquito	280
McDonald's Egg McMuffin	300
Dunkin Donut Whole Wheat Bagel w/ Cream Cheese	330
Taco Bell Burrito Supreme with Steak	340
Auntie Anne's Original Pretzel	340
Burger King Croissan'wich with Sausage, Egg and Cheese	340
Subway Classic Italian BMT Sub	410
Wendy's Chocolate Frosty- Medium	420
Kentucky Fried Chicken (KFC) Hot Wings Value Box	490
Dunkin Donut Blueberry Muffin	500
Burger King Large Fries	500
KFC extra crispy breast	510
McDonald's Quarter Pounder with Cheese	510
McDonalds Oreo McFlurry – Medium	556
Sausage, Egg and Cheese McGriddle	560
Domino's Pizza – 2 slices pepperoni	614
Burger King Original Chicken Sandwich	660
Taco Bell Fiesta Taco Salad with Chicken	730
Classic Cinnabon Roll	730
Domino's Meatzza Feat – 2 slices	754
Chipotle Chicken Burrito	700-1,265
Burger King Double Whopper with Cheese	1,010
Five Guys Large French Fries	1,464

Handout for Chapter 3, Lesson 4: Eating Out

**Fast Food Photos - Line 'Em Up**

Here are photos of some of your favorite fast food item photos.

page 1 of 7

**Domino's Meatzza Feast – 2 slices**



**Burger King Double Whopper with Cheese**



**Classic Cinnabon Roll**



**Taco Bell Fiesta Taco Salad with Chicken**



Handout for Chapter 3, Lesson 4: Eating Out  
**Fast Food Photos - Line 'Em Up**

page 2 of 7

**Burger King  
Original Chicken  
Sandwich**



**Domino's Pizza  
2 slices Pepperoni  
Cheese**



**Sausage, Egg  
and Cheese  
McGriddle**



**McDonalds Quarter  
Pounder with  
Cheese**



Handout for Chapter 3, Lesson 4: Eating Out  
**Fast Food Photos - Line 'Em Up**

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**KFC Extra  
Crispy Breast**



**Burger King  
Large Fries**



**Dunkin Donut  
Blueberry Muffin**



**KFC Hot Wings  
Value Box**



Handout for Chapter 3, Lesson 4: Eating Out  
**Fast Food Photos - Line 'Em Up**

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**McDonalds Egg McMuffin**



**Subway Classic Italian BMT Sub**



**Taco Bell Burrito Supreme with Steak**



**Dunkin Donut Whole Wheat Bagel w/ Cream Cheese**



Handout for Chapter 3, Lesson 4: Eating Out  
**Fast Food Photos - Line 'Em Up**

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**Dunkin Donut  
Glazed Donut**



**Taco Bell  
Taco Supreme**



**Subway Veggie  
Delite Sub**



**Taco Bell Soft  
Beef Taco**



Handout for Chapter 3, Lesson 4: Eating Out  
**Fast Food Photos - Line 'Em Up**

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**Chipotle Chicken  
Burrito**



**Five Guys Large  
French Fries**



**Burger King  
Croissan'wich with  
Sausage, Egg &  
Cheese**



**One 7 Eleven  
Monterey Jack and  
Chicken Taquito**



Handout for Chapter 3, Lesson 4: Eating Out  
**Fast Food Photos - Line 'Em Up**

page 7 of 7

## 7 Eleven Slurpee



## Auntie Anne's Original Pretzel



## Wendy's Chocolate Frosty – Medium



## McDonalds Oreo McFlurry - Small



Handout for Chapter 3, Lesson 4: Eating Out

## Ten Tips For Eating Foods Away From Home

Restaurants, convenience and grocery stores, or fast-food places offer a variety of options when eating out. But, larger portions can make it easy to eat or drink too many calories. Larger helpings can also increase your intake of saturated fat, sodium, and added sugars. Think about ways to make healthier choices when eating food away from home.

<https://www.choosemyplate.gov/ten-tips-eating-foods-away-home>

- 1. Consider your drink**  
Choose water, fat-free or low-fat milk, unsweetened tea, and other drinks without added sugars to complement your meal.
- 2. Savor a salad**  
Start your meal with a salad packed with vegetables to help you feel satisfied sooner. Ask for dressing on the side and use a small amount of it.
- 3. Share a main dish**  
Divide a main entree between family and friends. Ask for small plates for everyone at the table.
- 4. Select from the sides**  
Order a side dish or an appetizer-sized portion instead of a regular entree. They're usually served on smaller plates and in smaller amounts.
- 5. Pack your snack**  
Pack fruit, sliced vegetables, low-fat string cheese, or unsalted nuts to eat during road trips or long commutes. No need to stop for other food when these snacks are ready-to-eat.
- 6. Fill your plate with vegetables and fruit**  
Stir-fries, kabobs, or vegetarian menu items usually have more vegetables. Select fruits as a side dish or dessert.
- 7. Compare the calories, fat, and sodium**  
Many menus now include nutrition information. Look for items that are lower in calories, saturated fat, and sodium. Check with your server if you don't see them on the menu. For more information, check the Food and Drug Administration's (FDA) web site:  
<http://www.fda.gov/>
- 8. Pass on the buffet**  
Have an item from the menu and avoid the "all-you-can-eat" buffet. Steamed, grilled, or broiled dishes have fewer calories than foods that are fried in oil or cooked in butter.
- 9. Get your whole grains**  
Request 100% whole-wheat breads, rolls, and pasta when choosing sandwiches, burgers, or main dishes.
- 10. Quit the "clean your plate" club**  
Decide to save some for another meal. Take leftovers home in a container and chill in the refrigerator right away.

Handout for Chapter 3, Lesson 6: It's All About Size

### Serving Size Card

**SERVING SIZE CARD:**

Cut out and fold on the dotted line. Laminate for longtime use.

1 Serving Looks Like . . .	1 Serving Looks Like . . .
<b>GRAIN PRODUCTS</b>	<b>VEGETABLES AND FRUIT</b>
1 cup of cereal flakes = fist 	1 cup of salad greens = baseball 
1 pancake = compact disc 	1 baked potato = fist 
½ cup of cooked rice, pasta, or potato = ½ baseball 	1 med. fruit = baseball 
 1 slice of bread = cassette tape	½ cup of fresh fruit = ½ baseball 
1 piece of cornbread = bar of soap 	 ¼ cup of raisins = large egg
1 Serving Looks Like . . .	1 Serving Looks Like . . .
<b>DAIRY AND CHEESE</b>	<b>MEAT AND ALTERNATIVES</b>
 1½ oz. cheese = 4 stacked dice or 2 cheese slices	3 oz. meat, fish, and poultry = deck of cards 
½ cup of ice cream = ½ baseball 	3 oz. grilled/baked fish = checkbook 
<b>FATS</b>	
1 tsp. margarine or spreads = 1 dice 	 2 Tbsp. peanut butter = ping pong ball

Handout for Chapter 3, Lesson 4: Eating Out

## Recipe: Toaster Oven Pizza

### *Recipe*

#### **Toaster Oven Pizza**

##### **UTENSILS**

Cutting board  
Cutting knife  
Measuring cups and spoons  
Toaster oven or regular oven  
Cheese grater  
Pizza pan or cookie sheets

##### **INGREDIENTS FOR EACH PIZZA**

2 tablespoons pizza or spaghetti sauce  
½ whole wheat English muffin or whole wheat pita bread  
Assorted veggies - sweet peppers (red, green, yellow), mushrooms, broccoli, onions,  
black olives, roasted peppers or others  
2 tablespoons shredded cheese

##### **DIRECTIONS**

If using English muffins, split in half. Spread pizza sauce on muffin half or pita bread. Top with assorted veggies of your choice. Sprinkle with cheese. Place in toaster oven and bake at 400° for 10 minutes or until cheese is melted. Enjoy! Makes 1 serving

Handout for Chapter 3, Lesson 4: Eating Out

## Be Choosy In the Dining Hall

To download the original, go to: <https://choosemyplate-prod.azureedge.net/sites/default/files/tenttips/DGTipsheet26BeChoosyIntheDiningHall.pdf>

**10**  
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# be choosy in the dining hall



## 10 tips for healthy eating in the dining hall

Dining halls are full of healthy food options. You just need to know which foods to put on your tray. Use these tips to plan your food choices and know which options are best for you.

**1 know what you're eating**  
Many dining halls post menus with nutrition information. Look at the menus ahead of time, so you can be ready to create healthy, balanced meals when you get there. Having a plan is the first step in making smarter eating decisions! Visit [ChooseMyPlate.gov](http://ChooseMyPlate.gov) to find information and tools like SuperTracker to help you make meal selection a breeze.

**2 enjoy your food, but eat less**  
Everybody loves the all-you-can-eat dining hall! To resist the urge of eating too much, take smaller portions and use a smaller plate. Remember you can always go back if you are still hungry.

**3 make half your grains whole grains!**  
Whether you're at the sandwich station or pouring yourself a bowl of cereal in the morning, make the switch to whole grains like 100% whole-grain bread and oatmeal.



**4 re-think your drink**  
Americans drink about 400 calories every day. Consider how often you drink sugary beverages such as sodas, cappuccinos, energy drinks, fruit beverages, sweetened teas, and sports drinks. Drinking water instead of sugary beverages can help you manage your calories.

**5 make half your plate fruits and veggies**  
Fruits and veggies can make your meals more nutritious, colorful, and flavorful. Add to pastas, eggs, pizza, sandwiches, and soups. Try spinach in a wrap or add pineapple to your pizza.



**6 make it your own!**  
Don't feel like you have to choose pre-made plates. Design your own meal! Fresh veggies from the salad bar can be thrown into your omelet for brunch, or grab some tofu on your way to the pasta station for lean protein.

**7 slow down on the sauces**  
Sauces, gravies, and dressings tend to be high in fat and sodium. Watch out for foods prepared with a lot of oil, butter, or topped with heavy condiments, such as mayonnaise. You don't have to do away with sauces and condiments all together; just ask for less or put them on the side. Reducing extras will help you manage your weight.

**8 be on your guard at the salad bar**  
Most veggies get the green light but limit foods high in fat and sodium such as olives, bacon bits, fried noodles, croutons, and pasta or potato salads that are made with mayo and oil. Stick to fat-free or low-fat dressings on the side.



**9 make dessert special**  
Save dessert for a Friday night treat or on special occasions. When you can't resist, opt for something healthy, such as a fruit and yogurt parfait.

**10 don't linger**  
Dining halls should be just that, where you eat. Although it's great to chat with friends while you eat, avoid staying for long periods of time to reduce your temptation to keep eating.

Handout for Chapter 3, Lesson 5: New and Unusual Foods: Why Not Give It A Try?

**New Foods Taste Test**

- Rating Scale:**
- 1 – Yummy**
  - 2 – Pretty Good**
  - 3 – Okay**
  - 4 – Not my favorite**

**Your Name:** \_\_\_\_\_

<b>Food To Be Tasted</b>	<b>Rating</b>	<b>What I Liked Or Didn't Like About This Food.</b>

Handout for Chapter 3, Lesson 5: New and Unusual Foods

## Recipe: Insect Infested Log

### *Recipe*

#### **Insect Infested Log<sup>8</sup>**

##### **UTENSILS**

Cutting board  
Cutting knife  
Butter knife  
Dry measuring cups  
Measuring spoons  
4 snack-size plates

##### **INGREDIENTS**

4 (8-inch) celery stalks  
1/2 cup creamy peanut butter  
2 tablespoons currants  
2 tablespoons apricot bits or 6 dried apricots sliced into mini "worm-like" pieces

##### **DIRECTIONS**

Sit the celery stalks down on a cutting board. Saw each celery stalk in half with a cutting knife to make eight (4-inch) pieces. With a butter knife, spread the peanut butter from its measuring cup in each piece of celery. These are your "logs." On top of the peanut butter, sprinkle the currants ("baby ants") and apricots ("worms" or "larvae") straight from their measuring spoon. Lay two Insect-Infested Logs onto each plate. Take a bite—if you're not too grossed out! They're weirdly wonderful!

<sup>8</sup> Recipe is from [Kidnetic.com](http://Kidnetic.com)

Handout for Chapter 3, Lesson 5: New and Unusual Foods

## Recipe: Savory School Paste

### *Recipe*

#### **Savory School Paste<sup>9</sup>**

##### **UTENSILS**

Can opener  
Mesh strainer  
Blender  
Measuring spoons  
Cutting board  
Cutting knife  
Juicer or reamer\* and small bowl  
Liquid measuring cup  
Medium-size bowl

##### **INGREDIENTS FOR**

1 (15 to 16-ounce) can white cannellini or navy beans, drained  
1 small clove garlic, papery skin removed  
1 tablespoon extra virgin olive oil  
1/4 teaspoon salt  
Juice of 1/2 lemon  
1/4 cup cold water  
3 cups pre-cut veggies, such as broccoli flowerets and baby carrots

##### **DIRECTIONS**

Open the can of beans with a can opener. Over the sink, pour the beans into a mesh strainer. Rinse the beans with cold water. Drain well. Toss the well-drained beans into a blender container along with the small clove of garlic. Dribble in the olive oil from a measuring spoon and sprinkle in the salt, too. Slice a lemon in half on a cutting board with a cutting knife. Juice 1/2 lemon with a juicer or reamer\* into a small bowl. (Wrap up the other half and put it in the fridge for another use.) Pour the lemon juice into the blender container. Then, trickle in the 1/4 cup water from a liquid measuring cup. (If you like really thick paste, don't use all the water!) Make sure the blender lid is on tight! Then, blend on low speed for 15 seconds, or until all ingredients are combined. Pour your tasty paste into a medium-size bowl for pasting together veggies!

\* TIP: A reamer is a kitchen tool used to get juice out of citrus fruits like lemons, limes and oranges. If you don't have a juicer or a reamer, use your hands to squeeze the lemon half really hard so the juice goes into the bowl.

<sup>9</sup> Recipe is from [Kidnetic.com](http://Kidnetic.com)

Handout for Chapter 3, Lesson 5: New and Unusual Foods

## Recipe: Garbage Pasta Salad

### *Recipe*

#### **Garbage Pasta Salad**<sup>10</sup>

##### **UTENSILS**

Cutting board  
Cutting knife

##### **INGREDIENTS**

1/2 (16-ounce) box rotini or radiatore pasta  
6 ounces turkey salami, lean beef salami or baked ham, cubed or cut into strips  
6 ounces part-skim mozzarella or provolone cheese, cubed  
1 small zucchini, halved lengthwise, thinly sliced  
1 cup pea pods  
1 cup chopped broccoli flowerets  
1/2 large sweet red pepper, chopped (1 cup)  
1/2 small red onion, thinly sliced  
1/4 cup finely chopped fresh parsley or basil, or mixture of both  
1/2 cup light Italian or vinaigrette dressing  
2 tablespoon grated Parmesan cheese  
Black pepper, to taste

##### **DIRECTIONS**

Boil the pasta according to package directions; rinse in cold water and drain well. Pour the drained, cool pasta into a large bowl. Toss on top of the pasta the salami, cheese, zucchini, pea pods, broccoli, red pepper, onion, parsley or basil and dressing. Stir it well with a large spoon. Serve with the Parmesan cheese sprinkled on top and black pepper, to taste. Enjoy right away or cover and chill overnight. If taking to lunch, pack in a sealed plastic container. Make sure you have a fork to enjoy it with!

<sup>10</sup> Recipe is from [Kidnetic.com](http://Kidnetic.com)

Handout for Chapter 4, Lesson 6: New and Unusual Foods

## Recipe: Crazy Mix Veggie Burgers

### *Recipe*

#### **Crazy Mix Veggie Burgers<sup>11</sup>**

##### **UTENSILS**

Cutting board  
Cutting knife  
Dry measuring cups  
Measuring spoons (if needed)  
Cheese shredder (if needed)  
Medium-size mixing bowl  
Large spoon  
Toaster (or other kitchen utensils based on veggie burger package directions)

##### **INGREDIENTS**

4 large tomato slices  
4 whole-wheat hamburger buns  
4 frozen veggie burgers, prepared according to package directions  
Choose 5 of these 10 "Crazy Mix" ingredients:

- 1/2 cup shredded part-skim mozzarella cheese
- 1/2 cup shredded Cheddar cheese
- 1 cup finely chopped fresh spinach
- 1 cup finely chopped or shredded lettuce
- 3/4 cup thinly sliced red onion
- 1/2 cup shredded carrot
- 1/4 cup sliced pickles
- 1/4 cup ketchup
- 1/4 cup light mayonnaise
- 2 tablespoons mustard

##### **DIRECTIONS**

Pick 5 of the 10 "Crazy Mix" ingredients that you like best. Prepare each of the 5 ingredients and measure them out. Dump all the measured ingredients into a medium-size mixing bowl. Slop them all together with a large spoon. Set the bowl aside while preparing the rest of the Crazy Mix Veggie Burger. On the cutting board, slice a large tomato into four 1/2-inch-thick slices. Place each tomato slice on the bottom halves of the 4 buns. Cook the veggie burgers according to the package directions. Some veggie burgers can be prepared simply in the toaster. When the package suggests you can use a toaster, it usually takes just 5 to 6 minutes to toast each frozen veggie burger patty. Place each cooked veggie burger on top of each of the four slices of tomatoes. Then, plop the "Crazy Mix" evenly onto each of the veggie burgers. Top with the bun tops! Go crazy—take a big bite!

<sup>11</sup> Recipe is from [Kidnetic.com](http://Kidnetic.com)

Handout for Chapter 3, Lesson 6: It's All About Size

## **Portion Control: Sizing It Up!**

1/2 cup fruit, vegetable, cooked cereal, pasta or rice = a small fist

3 ounces cooked meat, poultry or fish = a deck of cards

1 tortilla = a small (7 inch) plate

1 small muffin = a large egg

1 teaspoon margarine or butter = a thumb tip

2 tablespoons peanut butter = a golf ball

1 small baked potato = a computer mouse

1 pancake or waffle = a 4 inch CD

1 medium apple or orange = a baseball

4 small cookies (like vanilla wafers) = four silver dollar coins

1½ ounces of cheese = 6 dice

Handout for Chapter 3, Lesson 6: It’s All About Size

**A Measured Serving**

Record your measurements on the chart below.

<b>Food Or Beverage To Be Measured</b>	<b>Amount You Served Yourself</b>	<b>One Serving According To The Label</b>

- How do your serving sizes measure up to the recommended serving sizes on the label?
- On the label how many calories for one serving? \_\_\_\_\_
- You do the math! How many calories for the amount you served yourself? \_\_\_\_\_
- What can you do to remind yourself of appropriate portions?

## Portion Scavenger Hunt - Activity Instructions part 1

WIN Kids Fun Days

# Portion Scavenger Hunt

## Portion Size Activity

**Objectives:**

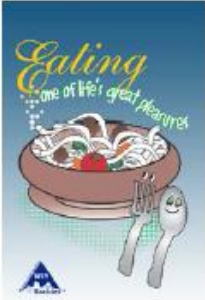
1. Examine large or super-sized portions.
2. Explore the sugar and/or fat quantities found in these portions.

**Age:**  
10 years and older.

**Length:**  
Approximately 30 to 60 minutes. The length depends on if samples are purchased ahead or if the group walks around town to find them. If a convenience store and fast food restaurant are not within walking distance, items need to be purchased ahead.

**Supplies and Materials:**

1. Samples of outrageous portions sold as individual items. These can be purchased ahead of time or purchased by each group after walking to the store or restaurant (need cash on hand). The following are suggested:
  - \* from a fast food restaurant –
    - a small and super-sized portion of French Fries
  - \* from a convenience store –
    - bag of chips
    - monster-sized cookie
    - huge packaged muffin
    - mega-sized soft-drink container, full with no ice (64 ounces)
    - large candy bar
    - microwave popcorn bag (pop before leaving store) or large bag already popped
2. Task sheets.
3. Six 12-ounce paper cups to be used with the soft drinks.
4. Two boxes of 4-gram sugar cubes for soft drink, candy bar, cookie, and muffin.
5. Shortening, measuring spoons, and clear sandwich-sized plastic bags for French Fries, potato chips, popcorn, candy bar, cookie, and muffin. **Helpful hint:** have groups measure the shortening into plastic bags to reduce clean up. The bag can be used to remove the shortening from the measuring spoon.
6. One-cup measuring cup for popcorn.
7. A supply of paper plates.



## Portion Scavenger Hunt - Activity Instructions part 2

### Special Considerations:

*Wheelchair-Bound Participants:* If the group is walking, check ahead to be sure the store and restaurant are wheelchair accessible. Ask person if they would like assistance or would prefer to wheel themselves.

*Reading and Math Assistance:* Assign one adult or an older teen to help each group complete the tasks.

### Activity Directions:

1. Divide participants into groups of 3 or 4. Distribute the task sheets and assign one of the seven items to find and analyze. If possible, assign one adult or an older teen to work with each group.
2. Instruct each group to find the item on their sheet. If within walking distance, groups can walk to the convenience store and fast food restaurant. Ask an adult to walk with each group and handle the cash needed to purchase the items. If items are purchased ahead, have them scattered around the area for the groups to find.
3. Have a supply table for groups to pick up paper plates, cups, bags, etc.
4. Allow time for each group to complete the tasks on their sheets.
5. Ask each group to share their findings with everyone else. Ask what was most interesting and/or surprising thing they observed.

### Take Home Tidbit

Take home slip says the following:

“Ask me what I learned about huge servings in our portion scavenger hunt during the WIN Kids Fun Day.”

**Source:** Pelican, Suzy. *How Big is BIG?! Portion Size Education Kit*. University of Wyoming Cooperative Extension Service. 2002.

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*WIN Kids Fun Days*, Wellness IN the Rockies, [www.uwyo.edu/wintherockies](http://www.uwyo.edu/wintherockies)

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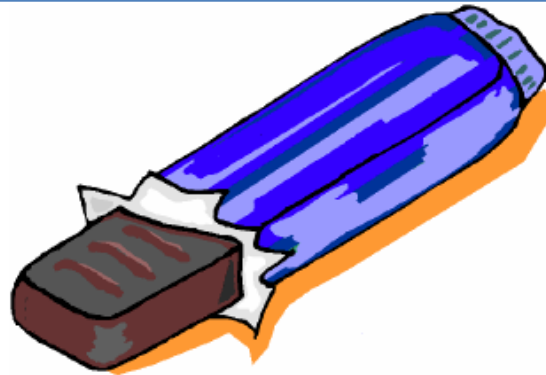
Wellness IN the Rockies is a community-based research, intervention, and outreach project to improve the health of residents in Idaho, Montana and Wyoming. Supported by award 0004499 through IFAFS (Initiative for Future Agriculture and Food Systems) Competitive Grants Program/USDA. [www.uwyo.edu/wintherockies](http://www.uwyo.edu/wintherockies) 1011



## Portion Scavenger Hunt Task Sheets - Candy Bar

### Your task is to find:

A large candy bar from a convenience store.



### Now that you've found your item, do the following:

1. Read the label on the candy bar wrapper to see how many servings are in the package.  
Number of servings \_\_\_\_\_
2. Divide the candy bar into the number of servings listed. Place each chunk onto a paper plate.
3. Read the label and find grams of fat for each serving  
Grams of fat in each serving \_\_\_\_\_  
  
Multiply this by the number of servings you wrote down in #1 for the total fat in the whole candy bar \_\_\_\_\_
4. Using this chart, measure the fat in the serving with shortening and measuring spoons. Measure into a clear plastic bag using the bag to remove the shortening from the spoon.
  - 12 grams of fat = 1 Tablespoon of shortening
  - 4 grams of fat = 1 teaspoon of shortening
  - 2 grams of fat = ½ teaspoon of shortening
  - 1 gram of fat = ¼ teaspoon of shortening

Example: 13 grams of fat would be 1 Tablespoon and ¼ teaspoon of shortening.

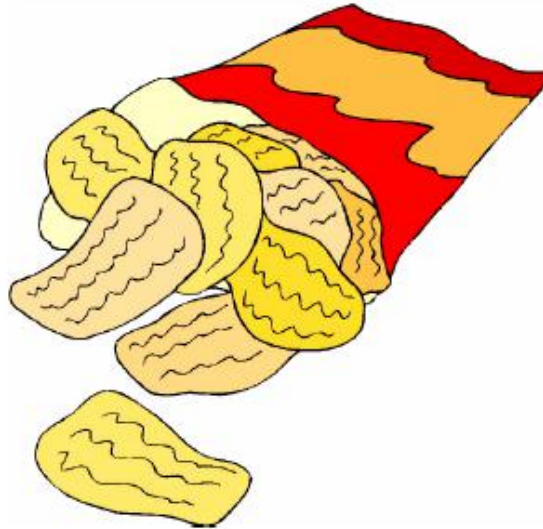
5. Read the label and find the grams of sugar for each serving.  
Grams of sugar for each serving \_\_\_\_\_  
Multiply this by the number of servings you wrote down in #1 for the total sugar in the whole candy bar \_\_\_\_\_
6. Count the number of sugar cubes in the whole candy bar. One sugar cube is 4 grams so divide your total grams of sugar by 4.  
  
Example: 15 grams of sugar is  $15 \div 4 = 3.75$ , so you would round up and count 4 sugar cubes.

### Share what you discovered.

*WIN Kids Fun Days: Portion Scavenger Hunt*

**Portion Scavenger Hunt Task Sheets - Chips****Your task is to find:**

A bag of potato chips from a convenience store.

**Now that you've found your item, do the following:**

1. Read the label on the package to see how many servings are in the bag. Usually one ounce is one serving.

Number of servings \_\_\_\_\_

2. Divide the bag into the number of servings listed and place each serving on a paper plate.

3. Read the label and find grams of fat for each serving

Grams of fat in each serving \_\_\_\_\_

Multiply this by the number of servings you wrote down in #1 for the total fat in the whole package \_\_\_\_\_

4. Using this chart, measure the fat in the serving with shortening and measuring spoons. Measure into a clear plastic bag using the bag to remove the shortening from the spoon.

12 grams of fat = 1 Tablespoon of shortening

4 grams of fat = 1 teaspoon of shortening

2 grams of fat =  $\frac{1}{2}$  teaspoon of shortening

1 gram of fat =  $\frac{1}{4}$  teaspoon of shortening

Example: 13 grams of fat would be 1 Tablespoon and  $\frac{1}{4}$  teaspoon of shortening.

**Share what you discovered.**

*WIN Kids Fun Days: Portion Scavenger Hunt*

## Portion Scavenger Hunt Task Sheets - Cookies

### Your task is to find:

A monster-sized cookie from a convenience store.

### Now that you've found your item, do the following:



1. Read the label on the cookie wrapper to see how many servings are in the package.

Number of servings \_\_\_\_\_

2. Divide the cookie into the number of servings listed. Place each piece onto a paper plate.

3. Read the label and find grams of fat for each serving

Grams of fat in each serving \_\_\_\_\_

Multiply this by the number of servings you wrote down in #1 for the total fat in the whole cookie \_\_\_\_\_

4. Using this chart, measure the fat in the serving with shortening and measuring spoons.

Measure into a clear plastic bag using the bag to remove the shortening from the spoon.

12 grams of fat = 1 Tablespoon of shortening

4 grams of fat = 1 teaspoon of shortening

2 grams of fat =  $\frac{1}{2}$  teaspoon of shortening

1 gram of fat =  $\frac{1}{4}$  teaspoon of shortening

Example: 13 grams of fat would be 1 Tablespoon and  $\frac{1}{4}$  teaspoon of shortening.

5. Read the label and find the grams of sugar for each serving.

Grams of sugar for each serving \_\_\_\_\_

Multiply this by the number of servings you wrote down in #1 for the total sugar in the whole cookie \_\_\_\_\_

6. Count the number of sugar cubes in the whole cookie. One sugar cube is 4 grams so divide your total grams of sugar by 4.

Example: 15 grams of sugar is  $15 \div 4 = 3.75$ , so you would round up and count 4 sugar cubes.

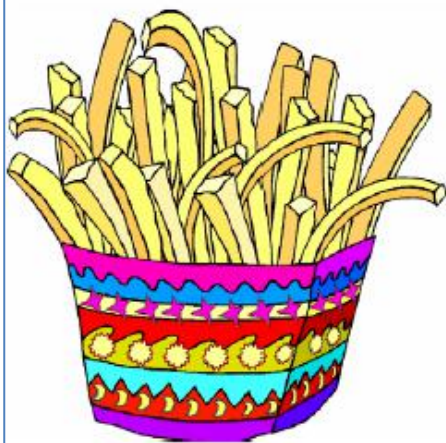
### Share what you discovered.

*WIN Kids Fun Days: Portion Scavenger Hunt*

## Portion Scavenger Hunt Task Sheets - Fries

### Your task is to find:

1. A small order of French fries from a fast food restaurant.
2. A super-sized or the largest order of French fries from a fast food restaurant.



### Now that you've found your items, do the following:

1. Count number of fries in the small portion. Place on a paper plate.
2. Count number of fries in the large portion.
3. Make piles showing how many small portions there are in the super-sized portion. Place each portion on a separate plate.
4. There are 10 grams of fat and about 27 French fries in a small order (using information from a common fast food restaurant.)

Multiply 10 by the number of servings or piles you made in step #3 for the total fat in the super-sized portion \_\_\_\_\_

5. Using this chart, measure the fat in the large portion with shortening and measuring spoons. Measure into a clear plastic bag using the bag to remove the shortening from the spoon.

12 grams of fat = 1 Tablespoon of shortening  
 4 grams of fat = 1 teaspoon of shortening  
 2 grams of fat =  $\frac{1}{2}$  teaspoon of shortening  
 1 gram of fat =  $\frac{1}{4}$  teaspoon of shortening

Example: 13 grams of fat would be 1 Tablespoon and  $\frac{1}{4}$  teaspoon of shortening.

### Share what you discovered.

*WIN Kids Fun Days: Portion Scavenger Hunt*

## Portion Scavenger Hunt Task Sheets - Muffins



### Your task is to find:

A large muffin from a convenience store.

### Now that you've found your item, do the following:

1. Read the label on the muffin wrapper to see how many servings are in the package.  
Number of servings \_\_\_\_\_
2. Divide the muffin into the number of servings listed. Place each piece onto a paper plate.
3. Read the label and find grams of fat for each serving  
Grams of fat in each serving \_\_\_\_\_  
  
Multiply this by the number of servings you wrote down in #1 for the total fat in the whole muffin \_\_\_\_\_
4. Using this chart, measure the fat in the serving with shortening and measuring spoons. Measure into a clear plastic bag using the bag to remove the shortening from the spoon.
  - 12 grams of fat = 1 Tablespoon of shortening
  - 4 grams of fat = 1 teaspoon of shortening
  - 2 grams of fat = ½ teaspoon of shortening
  - 1 gram of fat = ¼ teaspoon of shortening

Example: 13 grams of fat would be 1 Tablespoon and ¼ teaspoon of shortening.
5. Read the label and find the grams of sugar for each serving.  
Grams of sugar for each serving \_\_\_\_\_  
Multiply this by the number of servings you wrote down in #1 for the total sugar in the whole muffin \_\_\_\_\_
6. Count the number of sugar cubes in the whole muffin. One sugar cube is 4 grams so divide your total grams of sugar by 4.

Example: 15 grams of sugar is  $15 \div 4 = 3.75$ , so you would round up and count 4 sugar cubes.

### Share what you discovered.

*WIN Kids Fun Days: Portion Scavenger Hunt*

**Portion Scavenger Hunt Task Sheets – Soda Pop****Your task is to find:**

A large soft drink container from a convenience store. Try to find a 64-ounce container (remember what size you select.) Fill with a soft drink and no ice.

**Now that you've found your item, do the following:**

1. One soft drink can is 12-ounces. Fill as many 12 ounce-cups as you can from the mega-sized container you found. This is how many cans of pop are in your one container.
2. Different kinds of soft drinks have different amounts of sugar. For this activity, we will use an estimate of 1 sugar cube for each ounce of your soft drink. (Each sugar cube is 4 grams of sugar.)
3. Count the number of sugar cubes in the whole container full of a soft drink. Place the cubes on a paper plate.

**Share what you discovered.**

*WIN Kids Fun Days: Portion Scavenger Hunt*

## Portion Scavenger Hunt Task Sheets - Popcorn



### Your task is to find:

A microwave-able package of popcorn (pop before leaving the store). Or a large bag of already popped popcorn.

### Now that you've found your item, do the following:

1. Read the label on the microwave bag to see how many servings are in the package.
2. Divide the popcorn into the number of servings listed. Place each pile or serving piece onto a paper plate. For already popped corn, a serving is 3 cups of popped popcorn. Use a measuring cup and put one 3-cup serving on each paper plate.

3. Read the label and find grams of fat for each serving  
Grams of fat in each serving \_\_\_\_\_

Multiply this by the number of servings you wrote down in #1 for the total fat in the whole package \_\_\_\_\_

For already popped corn, figure 9 grams of fat for each 3-cup serving.

4. Using this chart, measure the fat in the serving with shortening and measuring spoons. Measure into a clear plastic bag using the bag to remove the shortening from the spoon.
  - 12 grams of fat = 1 Tablespoon of shortening
  - 4 grams of fat = 1 teaspoon of shortening
  - 2 grams of fat =  $\frac{1}{2}$  teaspoon of shortening
  - 1 gram of fat =  $\frac{1}{4}$  teaspoon of shortening

Example: 9 grams of fat would be 2 teaspoons plus  $\frac{1}{4}$  teaspoon of shortening.

**The amount of fat in popcorn depends on how it is cooked (oil or air popped) and how much butter is added after popping. Popcorn can be a low-fat snack if air-popped with no butter added.**

### Share what you discovered.

*WIN Kids Fun Days: Portion Scavenger Hunt*

Handout for Chapter 4, Lesson 1: Walk Your Way To Fitness

## **Goal Setting Worksheet – School Age Youth**

### **FITNESS GOALS I CAN REACH!**

#### **Short Term Goals**

(Examples: Watch 30 minutes less TV per day, play outside 30 minutes or more at least 5 days a week).

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#### **Medium Term Goals**

(Examples: Work up to 60 minutes of physical activity at least 3 days a week).

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---

#### **Long Term Goals**

(Examples: Improved health and fitness).

---

---

---

---

Handout for Chapter 4, Lesson 1: Walk Your Way To Fitness

**Goal Setting Worksheet – Middle School and Teen**

What are your short-term fitness goals? (Examples: walk one mile two times per week; ride your bicycle to your friend’s house two times per week, etc.)

---

---

What are your medium-term fitness goals? (Examples: try out for the high school soccer, basketball, or swimming team; lose five pounds, etc.)

---

---

What are your long-term fitness goals? (Examples: improved performance in team sports – resulting in more playing time, good health, strong muscles, feel and look good, etc.)

---

---

What are some obstacles you might encounter trying to meet these goals? (Examples: lose motivation, no time, injuries, etc.)

---

---

List at least three things that will help you to overcome these obstacles. (Examples: support from friends and family, join a sports team, etc.)

---

---

Handout for Chapter 4, Lesson 1: Walk Your Way To Fitness

**Progressive Walking Marathon Log**

Name \_\_\_\_\_

WEEK	SUN	MON	TUES	WED	THUR	FRI	SAT	RECOM- MENDED WEEKLY MILEAGE	ACCUM- ULATED MILEAGE	INITIALS OF SUPERVISING ADULT
Week 1								1.50		
Week 2								1.50		
Week 3								1.50		
Week 4								1.75		
Week 5								1.75		
Week 6								1.75		
Week 7								2.00		
Week 8								2.00		
Week 9								2.00		
Week 10								2.00		
Week 11								2.00		
Week 12								2.00		
Week 13								2.00		
Week 14								2.45		

**NOTE:** Every 30 minutes of organized sports practice (e.g. soccer, basketball) during which registrants are actively running, can count as one mile.

I have successfully walked/run a marathon!

Signature of Participant (or Supervising Adult if under age 18)

Date

\_\_\_\_\_



Handout for Chapter 4, Lesson 2: Let's Play Outside

**We Can! Screen Time Chart**

page 2 of 2

**We Can! Screen Time Chart**


**Name:** \_\_\_\_\_ **Dates:** \_\_\_\_\_

	TV	Video Games	Hand-held Devices	Computer	Daily Total
Monday					
Tuesday					
Wednesday					
Thursday					
Friday					
Saturday					
Sunday					

We Can! is a program from the National Institutes of Health that offers resources for parents, caregivers and communities to help children & 13 years old stay at a healthy weight through eating right, increasing physical activity, and reducing screen time.

To learn more, go to <http://wecan.nhlbi.nih.gov> or call 1-866-35-WECAN.

We Can! Ways to Enhance Children's Activity & Nutrition, We Can!, and the We Can! logos are registered trademarks of the U.S. Department of Health & Human Services (DHHS).



## Appendix B Resource List

This curriculum contains references to teaching resources that are listed below. Neither the Army, the authors, nor the 4-H National Headquarters, endorse these products or the vendors thereof.

	<b>Resource</b> In most cases, the products listed here are available from multiple sources.	<b>Possible Sources</b> The links shown below are just one example of where the resource may be found, and are not meant to be an endorsement or promotion of the site or the vendor.
1.	Activity Pyramid, laminated	<a href="http://www.humankinetics.com/physicaleducation">http://www.humankinetics.com/physicaleducation</a> Search for "Activity Pyramid" in the search box.
2.	MyPlate Poster	<a href="https://www.fns.usda.gov/tn/myplate-posters">https://www.fns.usda.gov/tn/myplate-posters</a>
3.	Black light	<a href="http://www.brevis.com/">http://www.brevis.com/</a>
4.	GlitterBug lotion	<a href="http://www.brevis.com/">http://www.brevis.com/</a>
5.	Buddy Bear's Handwashing Troubles	<a href="http://www.brevis.com/">http://www.brevis.com/</a>
6.	Heart Rate Chart	<a href="https://www.enasco.com/c/healtheducation/Fitness/Charts_Posters/">https://www.enasco.com/c/healtheducation/Fitness/Charts_Posters/</a> <b>(Important:</b> Make sure you select a heart rate chart that has numbers for children; many do not)
7.	5 lb Fat and Muscle Models	<a href="http://www.enasco.com/">http://www.enasco.com/</a> The lesson calls for 5 lb models.
8.	Dairy Council Food Model Pictures	<a href="http://www.oregondairyCouncil.org">http://www.oregondairyCouncil.org</a>
9.	Food models	<a href="http://www.enasco.com/nutrition/">http://www.enasco.com/nutrition/</a>
10.	Streamers (1 package of 5 per kit)	<a href="http://www.enasco.com/">http://www.enasco.com/</a>
11.	Basic Yoga Workout for Dummies DVD	<a href="http://www.yogaaccessories.com/">http://www.yogaaccessories.com/</a>
12.	Pedometers	Various sources
13.	What is a Whole Grain?	<a href="http://www.wholegrainsCouncil.org/files/WhatIsAWholeGrain_0.pdf">http://www.wholegrainsCouncil.org/files/WhatIsAWholeGrain_0.pdf</a>
14.	Grain bags	Various health food stores
15.	Wheat stalk	Various craft stores



# Appendix C Evaluation

## Introduction

4-H, America's largest youth development organization, is committed to evidence-based program evaluation and recognizes the need for a universal system to measure the impacts and outcomes of its youth programs. Common Measures is a framework that documents system-wide youth-related outcomes. Using logic modeling, this system identifies desired outcomes and impacts of positive youth development programming overall, as well as for each of 4-H's program areas: Science, **Healthy Living**, Citizenship, College/Career Readiness. Youth development practitioners can use Common Measures to plan, develop, and assess programs that meet the needs of their youth.

In the following pages, you will find a 4-H Common Measures Reference Table and a Healthy Living Evaluation Survey. The Reference Table, starting on page 260, illustrates outcomes and indicators for Healthy Eating Habits and Being Active content areas. Survey questions that correspond to these content areas are listed within each content area block. Note that the reference table suggests specific chapters and lessons that target these indicators and outcomes.

Before administering the survey, refer to the Reference Table to ensure that the suggested curriculum lessons are covered in your program. For example, if the focus of your youth program is healthy eating, Chapters 1 (Lessons 2, 5, 7, 9, 10), Chapter 2 (Lessons 1, 3, 4) and Chapter 3 (Lessons 2, 4, 6) are recommended. To evaluate this program, youth would respond to questions 1-9 under the Healthy Eating Habits heading, page 263. Questions for the Being Active content area are listed under that heading and include questions 10-13, pages 264. Participant demographic information is collected from questions 14-18 under the About You heading, page 265. Of course, all of the lessons relate to healthy living concepts and the authors recommend including as many as possible in your program.

The following is a description of the Reference Table contents.

1. **Content Block Column**
  - a. This column identifies which outcomes have been grouped together to create a Content Block.
2. **Outcome Column**
  - a. This column lists the Outcomes addressed within the 4-H Common Measures Healthy Living instrument
3. **Indicator Column**
  - a. This column lists the indicators that will be displayed within the program to indicate that the outcome is being addressed.
4. **Questions Column**
  - a. This column contains all questions that are associated with the Content Blocks.
5. **Curriculum Chapters**
  - a. This section is designed to help identify the specific chapters and lesson in the curriculum that connect with the designated outcomes and indicators. Information is listed with the chapter first then lesson second (ex: 1.2 = Chapter 1, Lesson 2).
  - b. It is recommended that a minimum of 6 hours of instruction occur before administering the evaluation tool to the youth engaged in the program.

### 4-H Common Measures 2.0 Reference Table

<b>Healthy Living</b>			
Content Block	Outcome	Indicator	Question
<b>Healthy Eating Habits</b>	Choose food consistent with the Dietary Guidelines	<ul style="list-style-type: none"> <li>Youth will consume healthy foods such as: vegetables, fruits, whole grains, fat-free or low-fat milk and milk products, seafood, lean meats and poultry, eggs, beans and peas, and nuts and seeds.</li> <li>Consume less unhealthy foods such as: sodium, solid fats, added sugars, and refined grains,</li> <li>Follow healthy eating patterns such as: eating breakfast, eating as a family, making healthy snack choices, etc.</li> </ul>	HE 1: Do you pay attention to how much fruit you eat each day? HE 2: Do you pay attention to how many vegetables you eat each day? HE 3: Do you pay attention to how much water you drink each day? HE 4: Do you pay attention to how many sugary drinks you drink each day? HE 5: Do you pay attention to the food label for the food you eat? HE 6: How often do you eat breakfast? HE 7: How often do you eat fast food? HE 9: At 4-H, did you learn about healthy food choices?
	Contributions	Youth will make contributions to their peers, families and communities	HE 8: Have you given your family ideas for healthy meals or snacks?
	Suggested Curriculum Chapters and Lessons	(Chapter#.Lesson#) 1.2; 1.5; 1.7; 1.9; 1.10; 2.1; 2.3; 2.4; 3.2; 3.4; 3.6	
<b>Being Active</b>	Improve physical activity practices	<ul style="list-style-type: none"> <li>Engage in 60 minutes or more of physical activity</li> <li>Reduce sedentary activity</li> <li>Youth will understand the benefits of physical activity</li> </ul>	BA 10: Do you pay attention to how active you are each day? BA 11: Do you pay attention to how much time you spend in front of a screen (TV, computer, tablet, or smartphone)? BA 13: At 4-H, did you talk about ways to be active?
	Contributions	Youth will make contributions to their peers, families and communities	BA 12: Have you encouraged others to be active with you?
	Suggested Curriculum Chapters and Lessons	(Chapter#.Lesson#) 1.1; 1.4; 1.6; 1.8; 4.1; 4.2	

# Demographics

Content Block	Outcome	Indicator	Question
<b>Demographic</b>	Contextual information		<p>D 14: How old are you?</p> <p>D 15: What grade are you in? <i>If it is summer break, which grade will you be starting in the fall?</i></p> <p>D 16: Which of the following best describes your gender?</p> <p>D 17: Which of the following best describes your race?</p> <p>D 18: What has been the most interesting thing you have learned by participating in the 4-H Up for the Challenge activities?</p> <p>D 19: How might you be different if you had never participated in the 4-H Up for the Challenge activities?</p>

## Survey



# 4-H Up for the Challenge Healthy Living Evaluation

Dear Participant:

You have been given this survey because you have participated in a 4-H program or project and 4-H would like to learn about you and your experiences in 4-H.

Your answers are important and they will be kept private. But, if you don't want to fill out the survey, you don't have to or if there is a question you don't want to answer, you can leave it blank.

There are no right or wrong answers, so please answer all questions honestly.

Thank you for your help!

## Healthy Eating Habits

- 1. Do you pay attention to how much fruit you eat each day?**
  - Yes
  - Usually
  - Not really
  - No
  
- 2. Do you pay attention to how many vegetables you eat each day?**
  - Yes
  - Usually
  - Not really
  - No
  
- 3. Do you pay attention to how much water you drink each day?**
  - Yes
  - Usually
  - Not really
  - No
  
- 4. Do you pay attention to how many sugary drinks you drink each day?**
  - Yes
  - Usually
  - Not really
  - No
  
- 5. Do you pay attention to the food label for the food you eat?**
  - Yes
  - Usually
  - Not really
  - No
  
- 6. How often do you eat breakfast?**
  - Every day
  - Most days
  - Some days
  - Never

**7. How often do you eat fast food?**

- Every day
- Most days
- Some days
- Never

**8. Have you given your family ideas for healthy meals or snacks?**

- Yes
- Sort of
- No

**9. At 4-H, did you learn about healthy food choices?**

- Yes
- Sort of
- No

**Being Active****10. Do you pay attention to how active you are each day?**

- Yes
- Usually
- Not really
- No

**11. Do you pay attention to how much time you spend in front of a screen (TV, computer, tablet, or smart phone)?**

- Yes
- Usually
- Not really
- No

**12. Have you encouraged others to be active with you?**

- Yes
- Sort of
- No

13. At 4-H, did you talk about ways to be active?

- Yes
- Sort of
- No

## About You

14. How old are you?  years old

15. What grade are you in?  grade  
*If it is summer break, which grade will you be starting in the fall?*

16. Which of the following best describes your gender?

- Male (boy)
- Female (girl)
- I don't want to answer

17. Which of the following best describes your race?

- Asian
- Black or African American
- Hispanic or Latino
- Native American
- Native Hawaiian/Other Pacific Islander
- White or Caucasian
- More than one race
- I don't know

18. What has been the most important thing you have learned by participating in the 4-H Up for the Challenge activities?

**19. How might you be different if you had never participated in the 4-H Up for the Challenge activities?**

**Thank you very much!  
Please return this form as directed.**



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