



Subtract the Sugar

Discussion

1. What are added sugars?

- Sugar can occur naturally or be added to foods.
- Naturally occurring sugars can be found in fruit or milk. For example, the sweet taste you experience when eating watermelon comes from the natural sugar in the fruit. Sugar is not added to the watermelon to make it taste sweet.
- You might sometimes hear sugars referred to as complex carbohydrates.
 Complex carbohydrates are healthier than simple carbohydrates
 because complex carbohydrates take longer to break down in the body
 and create a consistent level of energy release. Fruits, vegetables, and
 grains are foods containing complex carbohydrates, while cookies, soda,
 and candies are foods containing simple carbohydrates.
- Added sugars, also called simple carbohydrates, are sugars and syrups added to foods or beverages when they are processed or prepared. For example, the sweet taste of soda pop is from added sugars. Sugar must be added to the soda to make it taste sweet.

2. What foods contain added sugars?

- sodas, energy drinks, sports drinks, and fruit drinks
- candies, cakes, and cookies
- · pies and cobblers
- pastries and donuts
- dairy desserts
- yeast breads
- ketchup

3. Why is sugar added to foods?

- To enhance flavor, texture, and color.
- To preserve foods such as jams and jellies.
- To help bread to rise.

4. Is added sugar bad for me?

- Sugars are added to so many foods and beverages that you are often unaware you are even eating them. Added sugars can be unhealthy if you eat them in large amounts.
- Eating large amounts of added sugars provides extra calories that
 are low in nutritional value. Eating foods that contain a lot of added
 sugar versus nutritious foods can prevent the body from getting many
 of the important vitamins and minerals it needs.
- Extra calories from added sugars may also increase the risk of becoming overweight or obese.
- There are many risks and complications associated with obesity, such as increased risk of heart disease, high blood pressure, diabetes, breathing problems, and trouble sleeping.

Learner Objectives

Participants will be able to:

- understand and define added sugars;
- identify food products with added sugars; and
- identify one goal or action to reduce added sugars in the diet.

Materials

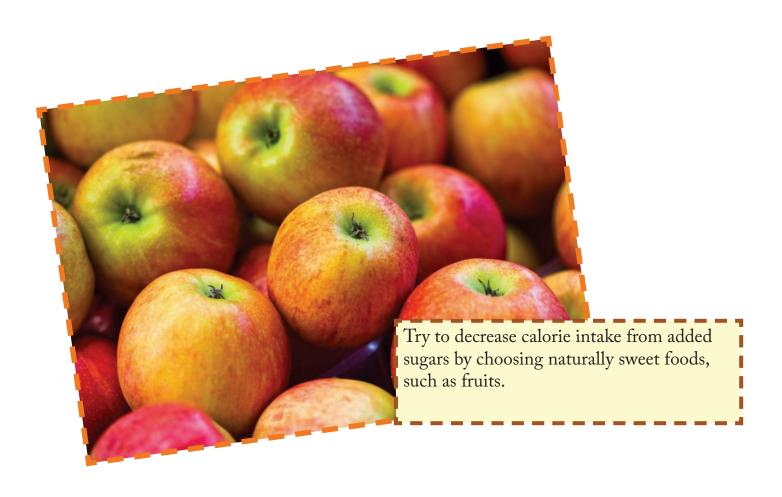
- Access to outside area to run around
- Dry erase board or chalkboard
- Pencils for participants



5. What are the limits for added sugar?

Age and Gender	Total Daily Calorie Needs (depending on growth and activity level)	Daily Limit for Added Sugar Calories It should be less than 10% from total calories	Daily Limit for Total Grams of Added Sugar
Boys 9 to 13	1,600 to 2,600,	160 to 260	40 to 65
Boys 14 to 18	2,000 to 3,200,	200 to 320	50 to 80
Girls 9 to 13	1,400 to 2,200,	140 to 220	35 to 55
Girls 14 to 18	1,800 to 2,400,	180 to 240	45 to 60

The chart above shows the total calorie needs for girls and boys based on their age. It also shows the daily limit for added sugar calories that can be eaten based on age and gender. No more than 10 percent of daily calories should come from added sugars.



6. Finding added sugars on a Nutrition Facts label.

You can find added sugars in the list of ingredients on food labels.

Most of the time, food items that do not have a food ingredient label, such as fruits and vegetables, do not contain added sugars.

Find the added sugars in Lucky Charms cereal on the Lucky Charms food ingredient label and the list of added sugars provided on the resource sheet (page 6).

• In the ingredient section of the label, you can see three different sugars added to the cereal: sugar, corn syrup, and dextrose.

You also can determine the total grams of sugars in one serving of Lucky Charms by looking at the nutrition label.

- Underneath grams of carbohydrates, different types of carbohydrates, such as fiber, sugar, and added sugars are listed. In this case, look at the line that says "added sugars."
- A one-cup serving of Lucky Charms contains 12 grams of added sugars. However, most people would probably eat two servings, so the grams of sugars would be 24 grams.

When reading nutrition facts labels, pay close attention to serving sizes. A bottle of soda may have two servings per container. In that case, you would have to double all of the nutrition information if you drank the whole bottle.

7. Making healthier choices to avoid too much added sugar.

- Try to eat only one or two items a day that contain added sugars.
- Eat apple wedges or watermelon slices instead of cookies and cakes.
- Drink water or low-fat milk with your meals instead of soda or fruit juice.
- Eat foods from all the different food groups.
- You don't have to eliminate foods with added sugars from your diet; you just have to remember not to consume too many of them.
- Exercise can't help you avoid sugar, but more exercise can help you burn extra calories.

Lucky Charms Cereal

Nutrition Facts

Serving Size 1 Cup (36 g)

Amount Per Serving		
Calories	140 as packaged	
Food component/nutrient	Amount as packaged	% Daily Value* as packaged
Total Fat	1.5 g	2%
Saturated Fat	0 g	0%
Trans Fat	0 g	
Polyunsaturated Fat	.5 g	
Monounsaturated Fat	.5 g	
Cholesterol	0 mg	0%
Sodium	220 mg	10%
Total Carbohydrate	30 g	11%
Dietary Fiber	2 g	8%
Total Sugars	12 g	
Includes Added Sugars	12 g	24%
Protein	3 g	
Vitamin D	4 mcg	20%
Calcium	130 mg	10%
Iron	3.6 mg	20%
Potassium	0 mg	0%
Vitamin A		10%
Vitamin C		10%
Thiamin		20%
Riboflavin		10%
Niacin		10%
Vitamin B6		20%
Folate		20%
Folic Acid	45 mcg	
Vitamin B12		20%
Zinc	,	20%

^{*} Product formulations, packaging, and promotions may change. For current information refer to packaging on store shelves.



^{**}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.

Activity

Red Rover, Red Rover

- Separate into two teams of five or six players; if playing with a large group, separate into four teams and have a play-off between teams at the end.
- Each of the two teams will line up holding hands. The teams must be 30 feet apart and facing one another.
- The first team will call out, "Red Rover, Red Rover, send (player on opposing team) on over." The selected player from the second team must run over to the first team and break the link of hands between two players. If the player breaks the link of hands, he or she can take back a player from the first team to join the second team. If the player does not break the link of hands, then he or she must join the first team. This process is repeated until one team has all the players.

Rules:

- Hands must be linked at the waist and cannot be held above the waist when an opposing player is trying to break through.
- Only link hands! Players cannot hold onto someone's waist or arm. Players also cannot lock arms at the elbows.
- Players must not stick their hands out at a running opponent; hands must remain at the player's side.
- Players can be disqualified or removed from the game if they do not follow these rules.

Nutrition Twist

- If a player breaks through the link of hands when running over, he or she must answer a question (see below) before the player can return with an opponent to his or her home team. If the question is answered incorrectly, the player can return to his or her home team, but may not bring back an opposing player.
- If a player does not break through the link of hands on the opposing team, the opposing team must answer a question before the player who did not break through can join their team. If the team answers the question incorrectly, the player can return to his or her home team.
- For the question: Ask players to name foods with added sugars. They must name specific foods; for example, a player cannot say cookies, he or she must say Oreos or chocolate chip cookies.
- Examples of foods with added sugars include any item from the following categories:
 - sodas, energy drinks, sports drinks, and fruit drinks
 - candies, cakes, and cookies
 - pies and cobblers
 - pastries and donuts
 - dairy desserts
 - yeast breads
 - ketchup

Different Names of Added Sugars

- anhydrous dextrose
- brown sugar
- confectioner's powdered sugar
- white granulated sugar
- corn syrup
- corn syrup solids
- dextrose
- fructose
- high-fructose corn syrup (hfcs)
- honey
- invert sugar

- · liquid sugar
- malt syrup
- maltose
- maple syrup
- molasses
- nectars
- pancake syrup
- raw sugar
- sucrose
- sugar



Snack Ideas Low in Added Sugars

- part-skim mozzarella cheese sticks
- unsalted nuts
- sunflower seeds
- fruits
- vegetables
- apple slices and peanut butter
- fruit slices dipped in low fat yogurt

1. What are added sugars?

- dried fruit without added sugars
- 100% fruit juice mixed with sparkling water

Worksheet

3. What are two problems caused by eating too much added sugar?

2. List	three foods with added sugars.

4. Circle the after-sc	hool snacks w	ith no added sugars
Gatorade	Water	Fat-free milk

Carrot sticks Twinkie Banana

Ranch dipping sauce Raisins Celery sticks

Use the Food Ingredient Label below to answer questions 5 and 6.

5. What are the added sugars in chocolate chip cookie dough ice cream
listed in the ingredients list to the right? You can refer to the List of
Added Sugars on page 6.

6. Mike is 14 years old and ate 3 servings (2 cups) of chocolate chip cookie dough ice cream for an after-school snack on Tuesday. How many total grams of added sugar did he eat? Using the Daily Limit Chart on page 2, did Mike overeat his limit for added sugars on Tuesday?

Ben and Jerry's Chocolate Chip Cookie Dough Ice Cream

One ½-cup serving has 72 grams of sugars.

Ingredients: cream, skim milk, liquid sugar (sugar, water), water, wheat flour, sugar, brown sugar, egg yolks, butter (cream, salt), eggs, expeller pressed soybean oil, chocolate liquor, coconut oil, vanilla extract, cocoa (processed with alkali), cocoa, salt, molasses, guar gum, natural flavor, cocoa butter, butteroil, soy lecithin, carrageenan

Nutrition Facts

3 Servings Per Container

Serving Size 2/3 cup (138 g)

Amount Per Serving		
Calories		380
	Amount/Serving	% Daily Value*
Total Fat	20 g	26%
Saturated Fat	13 g	65%
Trans Fat	0.5 g	
Cholesterol	80 mg	27%
Sodium	100 mg	4%
Total Carbohydrate	43 g	16%
Dietary Fiber	<1 g	4%
Total Sugars	34 g	
Includes Added Sugars	28 g	56%
Protein	5 g	
Vitamin D	0 mcg	0%
Calcium	150 mg	10%
Iron	0.8 mg	4%
Potassium	220 mg	4%

^{*}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.

Calories per gram: Fat 9, Carbohydrate 4, Protein 4

Kansas School Wellness Policy Model Guideline — Nutrition Education				
Requirements achieved	Implementing	Transitioning	Modeling	
in this lesson:	All students in grades K-12 will have the opportunity to participate in culturally relevant activities, as appropriate, and a variety of learning experiences that support development of healthful eating habits that are based on the most recent Dietary Guidelines for Americans and evidence-based information.	District administrators inform teachers and other school personnel about opportunities to participate in professional development on nutrition and on teaching nutrition.	The wellness committee, teachers and other school personnel participate in nutrition education-related professional development at least once a year.	
Topics	Basic information about added sugar. Evaluating health claims on food labels.			

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USDA MyPlate Healthy Eating More Key Topics: Oils, Added Sugars, Saturated Fats, Sodium, and Alcohol. Limit Added Sugars. https://www.myplate.gov/eat-healthy/more-key-topics

What nutrients does your child need now? (2022). Mayo Clinic. https://www.mayoclinic.org/healthy-lifestyle/childrens-health/in-depth/nutrition-for-kids/art-20049335

Answer Key

- 1. Added sugars are sugars and syrups that are added to foods or beverages when they are processed or prepared.
- 2. Soda, sports drinks, energy drinks, fruit drinks, candies, cakes, and cookies, pies and cobblers, pastries and donuts, dairy desserts, and yeast breads. Specific answers, such as Coke or Sprite, are also correct.
- 3. Eating too much added sugar can cause one to become overweight or obese. Added sugars can make one eat too many calories, eat foods low in nutritional value, or not consume enough vitamins and minerals.
- 4. fat-free milk, banana, celery sticks, carrot sticks, water, and raisins
- 5. liquid sugar, sugar, brown sugar, and molasses
- 6. Mike ate 84 grams of added sugar. One serving of ice cream is \(\frac{1}{2} \) cup, therefore 2 cups of ice cream are 3 servings.

For Mike's age, he is allowed 50 grams of added sugar each day. He ate 84 grams of added sugar. Mike went over his added sugar limit by 34 grams.



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