

**DL4A: Health 8  
Nutrition**

**Use the following instructions for the attached worksheets:**

**Activity 1: Tale of Two Foods**

Do French fries grow out of the ground? Do fishermen catch fish sticks? In general, the fewer steps between a food's original form and the way it appears on your plate, the better the food is likely to be for you (fresh fruits and vegetables are good examples). But a lot of food is processed. That means it went through a factory before it got to you. Foods often get an unhealthy makeover during processing and end up with added sugar, fat, salt, dyes, and preservatives.

After reading the article "Figuring Out Food Labels,"

- Choose two foods from your home.
- Look at the Nutrition Facts food labels for each.
- Using the "A Tale of Two Foods" worksheet, compare the nutritional information.

**Activity 2: It All Adds Up**

How much sugar is in those cookies you ate after school? How about the soft drink you washed them down with? Let's find out.

- 1) Get the food labels for a favorite snack and a drink, and locate the total grams of sugar for each.
  - a) *Be sure to pay attention to serving size! Remember: 4 grams of sugar equals 1 teaspoon. So how many teaspoons are in each of your items*
- 2) Use the "It All Adds Up" handout to solve some sugar math problems.

## Figuring Out Food Labels

You know how books have a table of contents that explains what's inside? Or maybe you have a toy that came with a diagram that identified each small piece.

Nutrition labels are sort of like that. They tell you what's inside the food you're eating and list its parts.

### Get Your Nutrition Facts Straight

The Nutrition Facts food label gives you information about which **nutrients** (say: NEW-tree-ents) are in the food. Your body needs the right combination of nutrients, such as vitamins, to work properly and grow.

The Nutrition Facts food label is printed somewhere on the outside of packaged food, and you usually don't have to look hard to find it. Fresh food that doesn't come prepackaged sometimes has nutrition facts, too.

Most nutrients are measured in **grams**, also written as **g**. Some nutrients are measured in **milligrams**, or **mg**. Milligrams are very tiny — there are 1,000 milligrams in 1 gram.

Other information on the label is given in **percentages**. Food contains fat, protein, carbohydrates, and fiber. Food also contains vitamins, such as A and C, and minerals, such as calcium and iron. Nutrition specialists know how much of each one kids and adults should get every day to have a healthy diet. The percent daily value on a food label tells you how this food can help someone meet these daily goals.

On food labels, they base the percentages on a 2,000-calorie adult diet. So looking at the label above for two crackers, a grownup would see that they provide less than 1 gram of fiber, only 3% of the person's daily needs. So that means he or she would have to eat other foods to get 100% of the fiber needed each day. Similarly, the person would see that the crackers provide nothing toward the daily goals for vitamin A, vitamin C, calcium, or iron.

### Comparing Labels

Food labels aren't ideal for kids because they're calculated based on what adults need to eat. A kid's diet might be more or less than 2,000 calories, based on your age, whether you are a boy or girl, and how active your are. Likewise, kids may need more or less of certain food components and nutrients, such as calcium and iron.

But kids can still get important information from food labels. They can get a general idea about what the food contains, how much is in a serving, and how many calories are in a serving.

Kids also can use labels to compare two foods. Which one has more fiber? Which one has more fat? Which one has more calories per serving?

The ingredient list is another important part of the label. Ingredients are listed in order so you get an idea of how much of each ingredient is in the food. When something is listed first, second, or third, you know that this food probably contains a lot of it. The food will contain smaller amounts of the ingredients mentioned at the end of the list.

With that in mind, check ingredient lists to see where sugar appears. Limit foods that mention sugar in the first few ingredients. That means it's a very sugary food. Sugar has different names, so it might also be called high fructose corn syrup, corn syrup, sucrose, or glucose.

## **Serving Size**

The nutrition label always lists a serving size, which is an amount of food, such as 1 cup of cereal, two cookies, or five pretzels. The nutrition label tells you how many nutrients are in that amount of food.

Serving sizes also help people understand how much they're eating. If you ate 10 pretzels, that would be two servings.

## **Servings per Container or Package**

The label also tells you how many servings are contained in that package of food. If there are 15 servings in a box of cookies and each serving is two cookies, you have enough for all 30 kids in your class to have one cookie each. Math comes in handy with food labels!

## **Calories and Calories From Fat**

The number of calories in a single serving of the food is listed on the left of the label. This number tells you the amount of energy in the food. The calories in a food can come from fat, protein, or carbohydrate. People pay attention to calories because if you eat more calories than your body uses, you will gain weight.

Another important part of the label is the number of calories that come from fat. People check this because it's good to limit fat intake to about 30% or less of the calories they eat.

## **Total Fat**

The total fat is the number of fat grams contained in one serving of the food. Fat is an important nutrient that your body uses for growth and development, but you don't want to eat too much. The different kinds of fat, such as saturated, unsaturated, and trans fat, will be listed separately on the label.

## **Cholesterol and Sodium**

These numbers tell you how much cholesterol and sodium (salt) are in a single serving of the food. They are included on the label because some people should limit the amount of cholesterol and salt in their diets. Cholesterol and sodium are usually measured in milligrams.

## **Total Carbohydrate**

This number tells you how many carbohydrate grams are in one serving of food. Carbohydrates are your body's primary source of energy. Under this heading, the number of grams of sugar and grams of dietary fiber in each serving are listed.

## **Protein**

This number tells you how much protein you get from a single serving of the food. Your body needs protein to build and repair essential parts of the body, such as muscles, blood, and organs. Protein is often measured in grams.

## **Vitamin A and Vitamin C**

These list the amounts of vitamin A and vitamin C, two important vitamins, in a serving of the food. Each amount is given as a percent daily value. Other vitamins may be listed on some labels.

## **Calcium and Iron**

These list the percentages of calcium and iron, two important minerals, that are in a serving of the food. Again, each amount is given as a percent daily value and other minerals may be listed on the label.

## **Calories per Gram**

These numbers show how many calories are in one gram of fat, carbohydrate, and protein. This information is the same for every food and is printed on the food label for reference.

**Reviewed by:** Steven Dowshen, MD

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Name: \_\_\_\_\_

Date: \_\_\_\_\_

## A Tale of Two Foods

Instructions: Use the worksheet below to compare the nutritional information of two foods.

### Food 1 \_\_\_\_\_

Serving Size \_\_\_\_\_

Servings Per Container \_\_\_\_\_

\_\_\_\_\_

#### Calories

**Total Fat** \_\_\_\_\_ grams

**Dietary Fiber** \_\_\_\_\_ grams

**Sugars** \_\_\_\_\_ grams

**Protein** \_\_\_\_\_ grams

\_\_\_\_\_

#### Vitamins and/or Minerals (most to least):

\_\_\_\_\_, % Daily Value \_\_\_\_\_

\_\_\_\_\_, % Daily Value \_\_\_\_\_

\_\_\_\_\_, % Daily Value \_\_\_\_\_

\_\_\_\_\_, % Daily Value \_\_\_\_\_

\_\_\_\_\_, % Daily Value \_\_\_\_\_

\_\_\_\_\_

#### First 3 Ingredients:

1. \_\_\_\_\_

2. \_\_\_\_\_

3. \_\_\_\_\_

### Food 2 \_\_\_\_\_

Serving Size \_\_\_\_\_

Servings Per Container \_\_\_\_\_

\_\_\_\_\_

#### Calories

**Total Fat** \_\_\_\_\_ grams

**Dietary Fiber** \_\_\_\_\_ grams

**Sugars** \_\_\_\_\_ grams

**Protein** \_\_\_\_\_ grams

\_\_\_\_\_

#### Vitamins and/or Minerals (most to least):

\_\_\_\_\_, % Daily Value \_\_\_\_\_

\_\_\_\_\_, % Daily Value \_\_\_\_\_

\_\_\_\_\_, % Daily Value \_\_\_\_\_

\_\_\_\_\_, % Daily Value \_\_\_\_\_

\_\_\_\_\_, % Daily Value \_\_\_\_\_

\_\_\_\_\_

#### First 3 Ingredients:

1. \_\_\_\_\_

2. \_\_\_\_\_

3. \_\_\_\_\_

1. Which food has more calories? \_\_\_\_\_
2. Which has more sugar? \_\_\_\_\_
3. Which has more fat? \_\_\_\_\_
4. Which has more protein? \_\_\_\_\_
5. Which has more fiber? \_\_\_\_\_
6. Which is the healthier choice? \_\_\_\_\_



Name: \_\_\_\_\_

Date: \_\_\_\_\_

## It All Adds Up

Instructions: Find out how much sugar is in your favorite snack and drink, and then solve the word problems below.

**Snack** \_\_\_\_\_

Serving Size \_\_\_\_\_

Servings Per Container \_\_\_\_\_

Sugar (Grams) in 1 Serving \_\_\_\_\_

**Drink** \_\_\_\_\_

Serving Size \_\_\_\_\_

Servings Per Container \_\_\_\_\_

Sugar (Grams) in 1 Serving \_\_\_\_\_

**How much sugar would you be eating or drinking if you:**

1. Ate the entire snack and drank all of the drink?

\_\_\_\_\_

2. Ate three servings of the snack and drank two servings of the drink?

\_\_\_\_\_

3. Split one serving of the snack and one serving of the drink with a friend?

\_\_\_\_\_

4. Had two servings of the snack and of the drink every day for a week?

\_\_\_\_\_

**If 1 teaspoon of sugar has 16 calories, how many calories from sugar is in your snack and in your drink?**

\_\_\_\_\_