

Lesson 1: Grains, Fruits and Vegetables



Fuel Your Body with Grains

Youth 14-18 years old need 6-10 ounces of grains each day—at least half that amount should be whole grains.

Whole Grains—Check the ingredients to make sure wheat or corn products say "whole grain".

- oats
- quinoa
- rolled oats

- millet brown rice
- wild rice
- muesli

- whole grain corn meal
- kamut
- popcorn

- barley
- whole grain wheat
- amaranth • dark rye

cookies

noodles

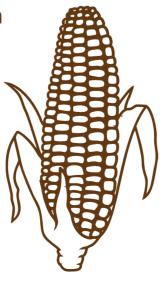
- pancakes
- pita bread
- rice paper (spring roll wrappers)
- bagels

Refined Grains—Check the ingredients. Some products

- white rice
- pasta
- cabbage
- crackers
- flour tortillas
- waffles
- naan
- green beans
- cake
- white bread • pizza crust

A Short History of Corn

Corn was the main food grown by Native Americans. They dried and ground corn into cornmeal. They placed corn kernals on a flat stone called a metate, and crushed the kernals with a smaller stone called a mano (meaning "hand"). Today, most corn is processed with machines that refine the corn into flour to make foods like chips, cereals, breads and pastas.



From Paper to Plate Activities this Week

1. Use your brain to solve the puzzles on the grains worksheet.

may be made with whole grains.



2. Complete the **Focus on Grains** activity sheet.





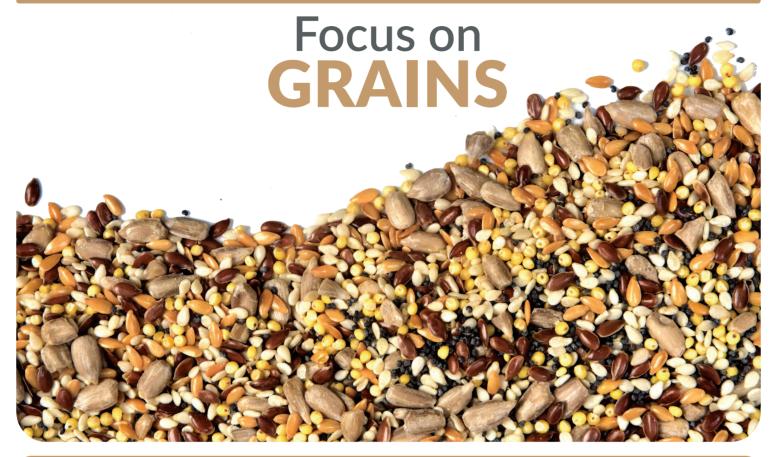


Lesson 1

"Eat More" groups - grains, fruits and vegetables







Use the grain cards and poster for the following activities.

A Nutrition Facts

- 1. Which parts of the grain are removed to make it refined?
- __Bran __Endosperm __Germ
- 2. What are ancient grains (check one)?
 - Grains that are old
- Grains that began long ago
- Grains that are grown the same way for centuries
- 3. Compare the rice noodles and the buckwheat soba noodles. Which is whole grain?





Whole Grain Connection

The Whole Grain Stamp (shown here) appears on food packages that are whole grains. Which foods below do you think will have the stamp?



Oatmeal Corn bread

Brown rice Soba noodles

Quinoa White rice

White Tortillas Toaster pastries

Popcorn Tortilla chips

Corn Flakes Whole wheat bread

Pancake Mix Buckwheat





Lesson 1

"Eat More" groups - grains, fruits and vegetables

Student Activity Sheet



Fact box - Grains

- Grains contain carbohydrates (carbs), a major source of energy for your brain and body. Grains provide fuel for physical activity. If you are active in sports and exercise, you may need more grains.
- Whole grains have more nutrition than refined grains. A whole grain includes the entire grain seed or kernel. Refined grains have the outer covering (bran) and germ removed. Because refined grains lose nutrients, they are enriched by adding back iron and four of the B vitamins (niacin, thiamin, riboflavin and folic acid).
- Youth ages 10 to 14 need five to eight servings of grains each day. A serving is one ounce, which is equal to 1 small slice of bread, a 6-inch tortilla, 1 cup dry cereal or ½ cup of cooked grains such as rice, pasta or oatmeal. At least half of the grains eaten should be whole grains.

Action Steps

The list below includes action steps for eating more whole grains. Whole grains are a good energy source. Circle the checks for one or more actions that you would be willing to work on. Have your own idea? Write it below.

- Eat a sandwich with whole grain bread.
- Eat popcorn as a snack.
- Choose a breakfast cereal that has the whole grain stamp on the package.
- ✓ Switch to brown rice instead of white rice.
- My idea for adding more whole grains to my diet (describe):

Grains for Your Brain

Complete the Grains Worksheet to solve a fun puzzle and decode a recipe.

Student	Lesson 1 Tood groups - public from and sugments Weekly Worksheet
	to Find Whole Grains
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Lesson 1

The "Eat More" food groups - grains, fruits and vegetables

Student Worksheet

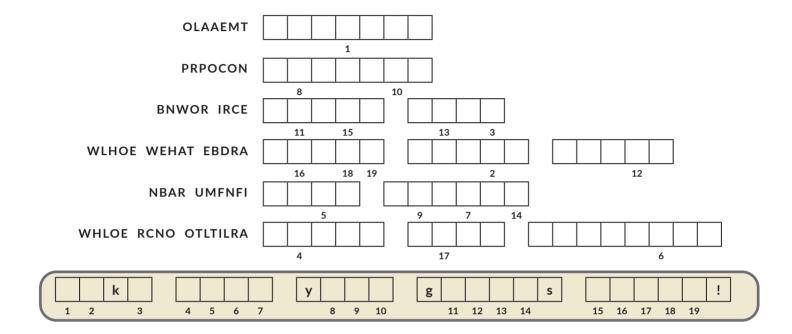


Use Your Brain to Find Whole Grains

Guide to Solving the Puzzle

1. Write the letters to form the unscrambled grain name in the boxes.

2. Then write the letter from the box above the number into the code boxes in the yellow section to solve the puzzle.



Recipe Decoder



Whole-Grain Blueberry Muffins

Ingredients:

- 1 cup fresh, frozen or canned blueberries, rinsed and drained
- 1¼ cups whole-wheat flour
- ½ cup oatmeal
- ½ cup sugar
- 2 teaspoons baking powder
- 2 eggs
- 8 ounces low-fat or fat-free lemon yogurt
- ¼ cup vegetable oil
- Non stick spray

Directions

Preheat oven to 375 degrees. Lightly spray muffin tin with non stick spray.

Mix flour, oatmeal, sugar and baking powder in large mixing bowl. In another bowl, beat eggs and mix in yogurt and vegetable oil. Stir in dry ingredients and mix lightly. Stir in blueberries. Spoon batter into muffin cups.

Bake 18-20 minutes or until muffin tops are browned. Loosen muffins and serve warm.

1. Which ingredients are whole grains?	and	
2. Which ingredients contain protein?	and	
3. Besides the $\frac{1}{2}$ cup sugar, which other	r ingredients contain sugar (natural or added)?	
and	<u>.</u>	





The "Eat More" Food Groups



Grains

Fuel Your Body & Brain

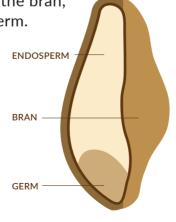
Grains are rich in carbohydrates, the major source of fuel for both your brain and body.



What is a Whole Grain?

Whole grains keep the entire grain kernel, with the bran, endosperm and germ.

Refined grains use a process to remove the outer covering (bran) and germ, leaving only the starchy endosperm.



What are Ancient Grains?



Ancient grains have been grown the same way for centuries without modern processing. Ancient grains include chia, amaranth, quinoa, millet, barley, kamut and farro. While chia and quinoa are technically seeds, they are considered ancient grains because they closely match the nutritients in other ancient grains.



Lesson 1 The "Eat More" Food Groups



Focus on Grains

Whole Grains vs. Refined Grains









White rice begins as brown rice, but is refined using a process to remove the bran and germ.

Corn tortillas use milled corn, a whole grain, while white tortillas use white refined flour.









Granola contains oats and dried fruits. Fruit-o's usually don't contain whole grains or fruit.

Both pastas are made of wheat, but traditional pasta (on the right) is made of refined or enriched wheat.

Look at the Ingredient Label

Which ingredients are whole grains?

Brown rice Durum wheat

Oats Whole wheat

Bran **Buckwheat**

Semolina Degerminated Enriched flour

Serving sizes matter. Make yours count.

For rice, pasta, cereals, oatmeal and other cooked grains, 1/2 cup is one serving.

For tortillas, one small tortilla (6 inches) counts as one serving.

3 cups of popcorn counts as one serving.

