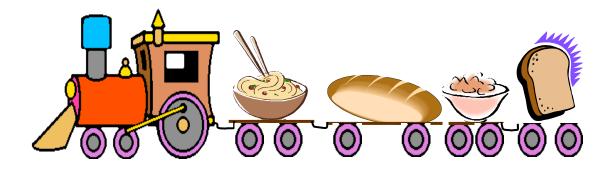
Child Nutrition & Wellness Kansas State Department of Education Presents

The Whole Grain Train, Get On Board!



Training Manual

A Class for CACFP Sponsors and Providers

This class was developed by Child Nutrition & Wellness, Kansas State Department of Education. Class content and activities were adapted from the following sources:

- The Whole Grain Choo-Choo Train Lesson Plan, Mary Stickney, Florida Department of Health
- The Whole Grain Choo-Choo Train, Kathy Reeves, MS, RD, LD, Mary Stickney, MA, RD, LD, Diane Bowden, MPH, RD, LD, Illustrated by Rob Gelhardt, Florida WIC and Florida Department of Health.
- Go With Whole Grains for Kids, Bell Institute of Health and Nutrition, General Mills, http://www.bellinstitute.com/ResourceDetail.aspx?Resourceld=717&PageId=81&SubPageId=65
- USDA/FNS, Whole Grains: Tips and Guidance for Moms (4-19-12)
- Sarah Malburg, A Preschool Theme on Bread& Baking, 6/6/2012.
- Go Whole Grains, Culinary Course, KSDE
- Hearty Whole Grain Breads, National Food Service Management Institute, The University of Mississippi.
- Alastair Bland. What Makes Whole-Grain Bread So Hard to Bake?, Smithsonian.com, 9-25-2013.
- Recipes from America's Breadbasket, Kansas Wheat Commission
- The Whole Grain Train, Get On Board, KSDE
- Culinary Techniques for Heathy School Meals, National Food Service Institute, The University of Mississippi
- TeamNutrition.usda.gov, Recipes for Healthy Kids Cookbook for Homes
- Facts About Kansas Wheat, Kansas Wheat, www.kansaswheat.org
- Brown Rice Basics, US Rice Federation
- Oats, Dictionary of American History | 2003 | Encyclopedia.com
- Fun Facts About Corn, Stumblerz.com, 3-17-2009
- GrainChain.com

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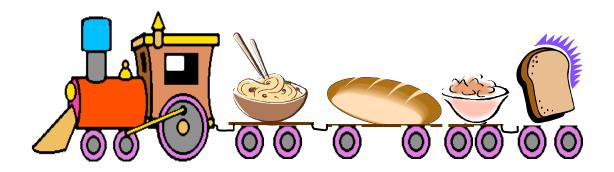
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The Whole Grain Train, Get On Board!



Administration

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	These Products Whole Grain Rich? Answer Key	•
	ting Whole Grains on Board Menu Activity Answer Keycolor copy on white card stock paper, 1 copy per trainer kit (provided	
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 Whole Grains – Did You Know? Lesson Plan (for Adults)	ion Statement k on white paper,

Child Nutrition & Wellness Kansas State Department of Education

Lesson Outline

Topic	Estimated Time
Welcome and Introduction Class Overview	5 minutes
 Lesson 1: Why and What of Whole Grains The Health reasons for getting on board with whole grains. All 3 parts of a whole grain. The Difference between whole grain, whole grain rich and whole grain added. How to read and use labels to select whole grain rich foods. Activity 1: Are These Whole Grain Rich? 	35 minutes
 Lesson 2: Get on Board the Whole Grain Train - Menus Practice replacing refined grain menu items with whole grain options. Learn how to adapt recipes to include whole grains. Receive whole grain recipe ideas. Activity 2: Getting Whole Grains on Board – Breakfast Menu Activity 3: Getting Whole Grains on Board – Lunch, Supper and Snack Menu Activity 4: Simple Taste Test 	55 minutes
Lesson 3: All Aboard the Whole Grain Train Learn It Live It Lesson Plans Whole Grain Choo Choo Train Making Bread with The Little Red Hen Whole Grain Pasta Shapes and Numbers Whole Grains Galore Whole Grains Did you Know? (Adults) Activity 5: Making Bread	20 minutes
Conclusion & Wrap-up	5 minutes
TOTAL TIME	2 hours

Facility Requirements

Classroom:

- Comfortable chairs and tables for all trainees that can be moved or arranged for small group work
- Blank wall or space for a screen at the front of the room
- Table located near the blank wall or screen for the trainer's materials

Audio-Visual Equipment:

- Data projector/computer
- Screen (if the classroom does not have a blank wall at the front of the room)

Supplies Needed

Item	Description	Amount Needed	Provided by
Pencils	For participants who did not bring one	12 each	KSDE or Trainer
Labels	Are These Products Whole Grain Rich? Activity Labels	5 sets of 5 labels	KSDE or Trainer
Bread Making Sequence Cards	See Administration	1 set of 7	KSDE

Optional Items for Taste Testing Activity

(See trainer notes for additional information about this activity)

- Whole grain crackers
- · Whole grain bread
- · Whole grain dry cereal
- Microwavable instant brown rice or brown rice mix
- Pasta Salad made with whole grain pasta, vegetables and low fat dressing
- Rice pudding made with brown rice
- Cold salads made with whole grains as cost allows (quinoa, barley)
- Napkins
- Soufflé cups or 2 ounce drinking cups
- Plastic spoons

Preparation and Set-Up Instructions

For Organizer

- Copy Participant Booklets.
- o Copy and assemble Activity 1 Are These Products Whole Grain Rich? Activity Labels.
- Copy and cut Activity 5: Bread Making Sequence Cards for 1 set of 7 cards.

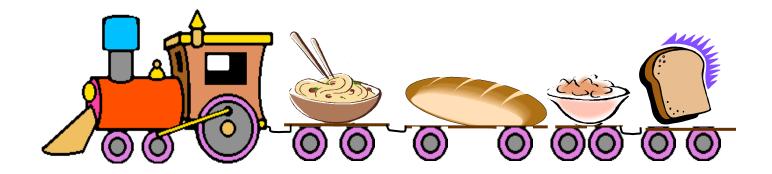
For Host Site

- o Ensure that the classroom is clean and meets the requirements.
- o Ensure that the audio-visual equipment is in good working condition.

For Trainer

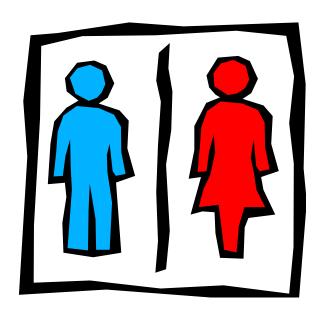
- Read class notes in advance and prepare.
- Determine how large/small your groups for Activity 1 will be. 5 sets of labels are provided.
 If you have a large group of participants, additional sets of labels may need to be copied.
- Optional: Set up table and supplies for taste testing activity.

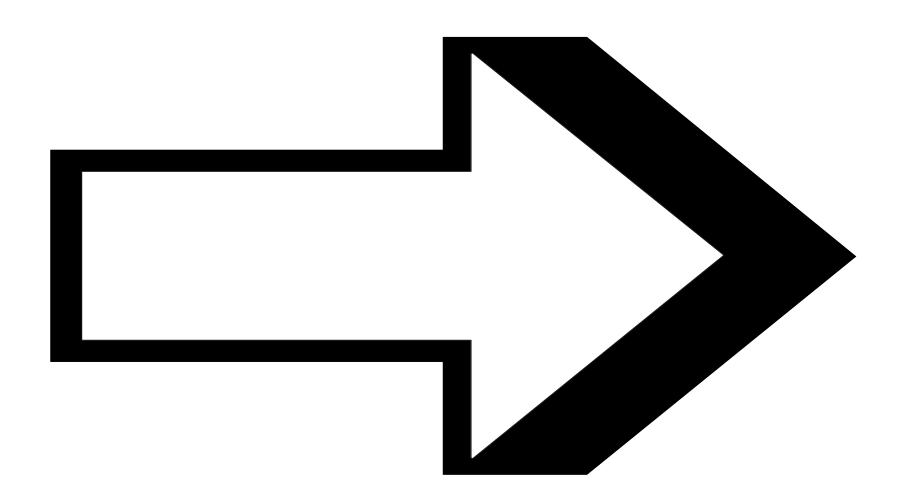
Welcome to



The Whole Grain Train, Get on Board!

Restrooms





Label 1: Whole Wheat Bread

Nutrition Facts

Serving Size: 1 slice (28 g)

Calories 69

Protein (g) 4

Carbohydrate (g) 12

Dietary Fiber (g) 2

Sugars (g) 2

Total Fat (g) 1

Saturated Fat (g) 0

Trans Fat (g) 0

Cholesterol (mg) 0

Sodium (mg) 132

Vitamin A 0%

Vitamin C 0%

Iron 4%

Calcium 3%

Diets rich in whole grain foods and other plant foods, and low in total fat, saturated fat and cholesterol may reduce the risks of heart disease and certain cancers.

Ingredients: Whole wheat flour, water, corn syrup, wheat gluten, yeast, contains 2% or less of each of the following: honey, partially hydrogenated soybean oil, salt, dough conditioners (may contain one or more of each of the following: mono- and diglycerides, ethoxylated mono- and diglycerides, calcium and sodium stearoyl lactylates, calcium peroxide, calcium carbonate), whey, yeast nutrients (mono-calcium phosphate, calcium sulfate, ammonium sulfate), distilled vinegar, cornstarch.

Label 2: Seven Grain Bread

Made with whole grains, 8.5 g whole grains per serving No trans fat Seven wholesome grains with a touch of molasses

Nutrition Facts

Serving Size: 1 slice (41 g)

Calories 109

Protein (g) 5

Carbohydrate (g) 20

Dietary Fiber (g) 2

Sugars (g) 3

Total Fat (g) 2

Saturated Fat (g) 0

Trans Fat (g) 0

Cholesterol (mg) 0

Sodium (mg) 172

Vitamin A 0%

Vitamin C 0%

Iron 6%

Calcium 4%

Ingredients: Enriched wheat flour [flour, malted barley flour, reduced iron, niacin, thiamin mononitrate (vitamin B1), riboflavin (vitamin B2), folic acid], water, whole wheat flour, soy, high fructose corn syrup, cracked wheat, molasses, raisin juice concentrate, soybean oil, yeast, whole-grain barley, salt, nonfat milk, whole rye flour, wheat gluten, whole-grain triticale, whole-grain millet, oats, ground corn, monoglycerides, soybeans, brown rice, grain vinegar, calcium sulfate, flaxseed, ascorbic acid (dough conditioner), soy lecithin.

Label 3: Honey Graham Crackers

Now more whole grains

Nutrition Facts

Serving Size: 2 squares (14 g)

Calories 59

Protein (g) 1

Carbohydrate (g) 11

Dietary Fiber (g) 0

Sugars (g) 4

Total Fat (g) 1

Saturated Fat (g) 0

Trans Fat (g) N/A

Cholesterol (mg) 0

Sodium (mg) 85

Vitamin A 0%

Vitamin C 0%

Iron 6%

Calcium 0%

Ingredients: Enriched flour (wheat flour, niacin, reduced iron, thiamine mononitrate [vitamin B1], riboflavin [vitamin B2], folic acid), sugar, graham flour (whole-grain wheat flour), soybean oil, high fructose corn syrup, partially hydrogenated cottonseed oil, honey, leavening (baking soda, calcium phosphate), salt, artificial flavor, soy lecithin- an emulsifier, cornstarch.

Label Four: Whole-Grain Crackers

Made with whole grains 5 g whole grain per serving 0 g trans fat per serving

Nutrition Facts

Serving Size: 7 crackers (31 g)

Calories 140

Protein (g) 2

Carbohydrate (g) 21

Dietary Fiber (g) 1

Sugars (g) 4

Total Fat (g) 6

Saturated Fat (g) 1

Trans Fat (g) 0

Cholesterol (mg) 0

Sodium (mg) 260

Vitamin A 0%

Vitamin C 0%

Iron 6%

Calcium 2%

Ingredients: Enriched flour (wheat flour, niacin, reduced iron, thiamine mononitrate [vitamin B1], riboflavin [vitamin B2], folic acid), soybean oil, whole-grain wheat flour, sugar, defatted wheat germ, cornstarch, malt syrup (from barley and corn), high fructose corn syrup, salt, monoglycerides, leavening (calcium phosphate and/or baking soda), vegetable color (annatto extract, turmeric oleoresin), soy lecithin. BHT added to packaging material to preserve freshness.

Label 5: Whole-Grain Pasta

Excellent source of fiber



Nutrition Facts

Serving Size: 2 oz

Calories 180

Protein (g) 6

Carbohydrate (g) 42

Dietary Fiber (g) 6

Sugars (g) 1

Total Fat (g) 1

Saturated Fat (g) 0

Trans Fat (g) 0

Cholesterol (mg) 0

Sodium (mg) 0

Iron 10%

Thiamin 35%

Riboflavin 15%

Niacin 20%

Folate 30%

Not a significant source of vitamin A, vitamin C, and calcium.

Ingredients: Whole wheat duram flour, semonlina, soybean oil, salt, monoglycerides.

Are These Products Whole Grain Rich? Answer Key

Instructions: List the label and name of the product. Work as a group to decide if the product is whole grain rich and why or why not.

Product	Whole Grain Rich?	Why or Why Not?
Whole Wheat Bread	Yes	Whole wheat flour is first ingredient and contains the FDA-approved health label.
Seven Grain Bread	No	First ingredient is enriched wheat flour.
Honey Graham Crackers	No	Enriched Flour is the first ingredient.
Whole Grain Crackers	No	First ingredient is enriched flour. (not 8 grams of whole grain per ounce)
Whole Grain Pasta	Yes	First ingredient is whole wheat duram flour. Label has the whole grain stamp.

Getting Whole Grains on Board Menu Activity Answer Key

Instructions:

- Circle all the whole grain items on the menu.
- Below the refined grain items, write in whole grain options.

Breakfast

Orange Juice	Banana	Orange Slices	Tomato Juice	Orange Juice
Cheerios	Corn Flakes **Wheaties	English Muffin **WW English Muffin	Whole Wheat Toast	Oatmeal
Milk	Milk	Milk	Milk	Milk
V-8 Juice	Pineapple	Apple Juice	Peaches	Orange Juice
Rice Cake **Brown Rice Cake	Whole Grain Pancake	Biscuit **Whole Grain Biscuit	Cream of Wheat **Whole Grain Cream of Wheat	Blueberry Muffin **Whole Grain and Oat Muffin
Milk	Milk	Milk	Milk	Milk

Lunch/Supper

PBJ & Cottage	Chili	Meatballs	Scr. Egg/Cheese	Spaghetti
Cheese	Crackers	Rice	Biscuit	Casserole
Whole Wheat	**Whole Grain	**Brown Rice	**Whole Grain	Spaghetti
Bread	Crackers		Biscuit	**WW Spaghetti
Carrots	Chili Beans	Spinach	Hash Browns	Green Beans
Orange	Applesauce	Pears	Broccoli	Apple Wedges
Milk	Milk	Milk	Milk	Milk
Corndog	Meat Loaf	Chicken Nuggets	Burrito	Hamburger
	Dinner Roll		WG Tortilla	Bun
	**WW Dinner			**WW Bun
	Roll			
Tator Tots	Mashed Potato	Baby Carrots	Lettuce/Tomato	French Fries
Grapes	Green Beans	Kiwi	Refried Beans	Fruit Cocktail
Milk	Milk	Milk	Milk	Milk

Snacks

	Wheaties	Muffins	Waffle	Scones	English Muffin
\		**Whole Grain	**Whole Grain		**WW English
		Muffin	Waffle		Muffin
	Milk	Milk	Grape Juice	Milk	Hot Chocolate

***Corn dogs with whole grain batter and chicken nuggets with whole grain breading are available from wholesale providers to school nutrition programs. However, these items are not typically available retail and would not be required to be whole grain if at least one other item served during the day is whole grain. Commercial scones are rarely whole grain. Whole grain scones can be made from scratch using 51% whole wheat flour or whole wheat pastry flour.









