Book and Bake Chocolate Whole Wheat Waffles



Discussion guide... something for ages Pre-K to 18!

Copy the recipe for all, tools and ingredients (see side bar).

EXTRAS: U.S. map, food scale, internet access, a package w/price of 8-12 waffles.

- **History.** As U.S Minister to France, Thomas Jefferson returned with a waffle iron in 1789, serving waffles to many... Meriwether Lewis enjoyed waffles before Lewis & Clark Expedition! Why would Mr. Jefferson NOT have served these waffles? **A:** Chocolate wasn't used in baking til 1832!
- Math. How many waffles does the recipe make and how much does each weigh? What is the net weight of the waffles the recipe makes? (A: 36 oz) How does the price of making your own compare with buying a package of frozen waffles? A: compare net weight and price of purchased waffles How many grain servings in one waffle? (A: 1 oz=1 serving=3 servings)
- Science. State the Question. What makes the waffle light, not flat? Read the recipe together. What is their hypothesis?
 A: Gas bubbles produced by the leavening (LEH-vuhn-ing) ingredients What is the leavening in the waffle and what gas does each type contribute? (A: Beaten egg whites (O2 & CO2); baking powder (CO2)
- **Reading.** Read the *recipe* together, top to bottom. Take time to study the directions, terms. Before beginning, gather all *ingredients* and tools. Divide into teams and assign or ask teams self-assign prep steps.
- Consumer science. Compare ready-to-eat frozen waffles with Chocolate Waffles (A: Chocolate Waffles are wholegrain; cocoa is rich in hearthealthy flavanols; use Nutrition Facts & compare fat, sugars, fiber, protein, sodium, potassium, Vit. A, C, calcium, iron)
- **Creativity.** Use these terms in a mad-lib story or sentence! waffles... leavening... price... ingredients... flour... milk... cocoa... sugar...net weight... French... Thomas Jefferson... protein... whole grain... baking powder... beat... preheat... waffle iron... butter
- **Team work.** Describe how you can work together best to make great Chocolate Waffles. How can you divide clean up and baking?
- **Tech Time.** Learn more about flour, waffles, wheat, sugar and chocolate. How Flour is Milled. http://www.namamillers.org/education/kid-zone/ Waffle history. http://bit.ly/1CPH6Qr Get food facts, not myths. Wheat and Sugar Facts. https://www.candyusa.com/story-of-chocolate/fun-facts-about-chocolate/

Book AND Bake Options:

- Beans to Chocolate. How Things are Made. Inez Snyder.
- Grandma's Chocolate. Mara Price. (Spanish/English)
- Smart About Chocolate. Sandra Markle. (K and up)
- **DK Readers: The Story of Chocolate.** C. J. Polin (Gr. 2 and up)
- Charlie and the Chocolate Factory. Roald Dahl. (Many ages)
- Everything on a Waffle. Polly Horvath. (Many ages)



What you'll need. Cost per recipe:

Pre-K to 1st: Teams of 3-4 per aide

- □ Tables/space, 6-12 teams
- □ Aprons for each baker
- ☐ 2 to 4 waffle irons/drop cords (Plug in at separate outlets)
- \Box 6 12 medium mixing bowls
- ☐ 6-12 small glass or metal mixing bowls (to beat egg whites)
- □ 6-12 wire whisks
- □ 6-12 large mixing spoons
- □ 6-12 dry measuring cup sets & measuring spoon sets
- ☐ 6-12 liquid 2-cup measuring cups
- □ 2-4 vegetable oil pastry brushes
- □ Place tray or cookie sheet pan w/ ingredients for two teams:

whole wheat flour (4 cups) all-purpose flour (2 cups) baking powder (1 can) granulated sugar (1 cup) Baker's cocoa, ½ cup chopped nuts (1 cup, opt.) small salt container 1% milk (4 cups) 4 large eggs (at room temp) 1 stick butter, cut in half ½ cup vegetable oil vanilla extract (2 tsp.)

- □ Confectioner's (powdered)sugar
- ☐ Sifter, serving spoons
- Other topping options:Vanilla low-fat yogurt,Fresh Berry Sauce,

https://www.dominosugar.com/recipe/fresh-berry-sauce

- □ Plates, napkins (no utensils)
- ☐ Dishpans, cloths, drying space
- $\hfill\Box$ Need gluten-free flour blend?

Go to: Gluten-free links at HomeBaking.org Glossary

Make your own Gluten Free Flour blend, Baking for Special Needs. https://www.homebaking.org/wpcontent/uploads/2019/07/final_kitc henscience-1.pdf

Lesson tested and prepared by Sharon Davis, Family & Consumer Sciences . HomeBaking.org

Chocolate Waffles

Step-by-Step





- 2. Wash tables or counter and hands; put on aprons
- 3. Divide into teams as needed; one recipe serves 12.
- 4. Read recipe together--top to bottom.
- 5. Discuss how to share the tasks and begin.
- 6. Gather ingredients and equipment for each team.

<u>Ingredients and Directions: Makes 12, 3-oz. waffles</u>

- 1. In a medium-sized bowl, whisk together the dry ingredients:
 - 2 cups whole wheat flour* (fluff flour, spoon into dry cup, level off)
 - 1/2 cup granulated sugar
 - 3 tablespoons baking cocoa
 - 2 teaspoons baking powder
 - 14 teaspoon salt
 - ½ cup chopped nuts (optional)
- 2. In a 2-cup liquid measuring cup use whisk to mix until blended:
 - 1 1/2 cups 1% milk
 - 1/4 cup melted unsalted butter (or 1/4 cup vegetable oil)
 - 1/4 cup vegetable oil
 - 1 teaspoon vanilla or almond extract
- 3. **Separate 2 large eggs****--add yolks to 2-cup measuring cup milk mixture; mix well. In a separate glass or metal mixing bowl, **beat** egg whites with clean whisk or electric mixers to form stiff peaks.
- 4. Brush the waffle irons with vegetable oil and preheat.
- **5.** Stir the liquid mixture into the dry ingredient mixture just until blended well. With a large spoon gently **fold** the egg whites into the batter until they disappear. View how to "fold," HomeBaking.org Glossary, F. https://www.homebaking.org/glossary/#f
- **6.** If possible, warm a cookie sheet or plate to hold waffles in a 175° F. oven.
- 7. Scoop ¼-cup batter onto each waffle grid, close and bake as waffle iron directs.
- → Serve waffles hot, sprinkled with confectioner's sugar, OR a drizzle of syrup OR Greek vanilla yogurt and warm cherries. * an all-purpose gluten-free flour blend may be substituted
 - **OR, beat 2 whole eggs until lemon-colored; combine with milk mixture



One of 12 waffles, also provides 130 mg potassium, flavanols, 3 servings grain group and one full serving (16g) whole grains. Learn more: wholegrainscouncil.org

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