4-H Fun with Foods Level I



4-H Food & Nutrition



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4-H Fun with Foods is an update of Food & Nutrition Have Fun with Foods Phase 1 by Georgia Lauritzen, USU Extension

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Microwaves cook by causing water molecules to rub against each other. This constant rubbing or friction creates heat inside the food. This makes food heat very quickly while at the same time not heating the air around the food. Microwaves vary by how many watts they have, the higher the number of watts the quicker the food will cook. Because microwaves vary, cooking times on recipes may need to be adjusted depending on your microwave.



Activity 1: Testing dishes for microwave safety

Goal:

Learn what kinds of dishes are microwave safe.



Materials Needed:

Glass dish
1 or 2 other kinds of dishes (non-metal)
Water

Plastic dish Glass measuring cup

Directions:

- 1. Place the empty dish to be tested inside the microwave. Remember do NOT test any container that is metal or has metal trim. A spark and fire can result. NEVER put metal in the microwave.
- 2. Measure 1 cup of water in the glass measuring cup.
- 3. Place cup in microwave next to the dish (or inside the dish if it is large).
- 4. Microwave on high for 1 minute.
- 5. Carefully test the temperature of the dish and water. If the dish is cool and the water is warm the dish is microwave safe.
- 6. If the dish is hot and the water is cool do not use the dish for microwave cooking.
- 7. Repeat steps with the next dish.

What have you learned?

- √ What containers seemed to work best in the microwave?
- √ Were any dishes labeled microwave-safe? Where was this information located?
- √ What would happen if you cooked in containers that were not microwave safe?



Safety Tip

- √ Never run the microwave empty or if the door is not completely closed.
- √ Use only microwave-safe cookware.
- √ Some plastics may melt in the microwave be sure they are microwave safe before using.
- √ Never use aluminum foil or any containers with metal.
- √ Have pot holder handy to remove hot containers.
- √ Be careful when removing coverings. Steam is very hot and can burn!
- √ Using a microwave safe cover that is vented to allow some of the steam to escape can create moist heat that will help kill harmful bacteria especially in cooking meat or poultry.
- √ Using a vented cover over the food can also help food cook evenly and keep the inside of the microwave clean.
- √ If a spill occurs, be sure to wipe it up immediately.



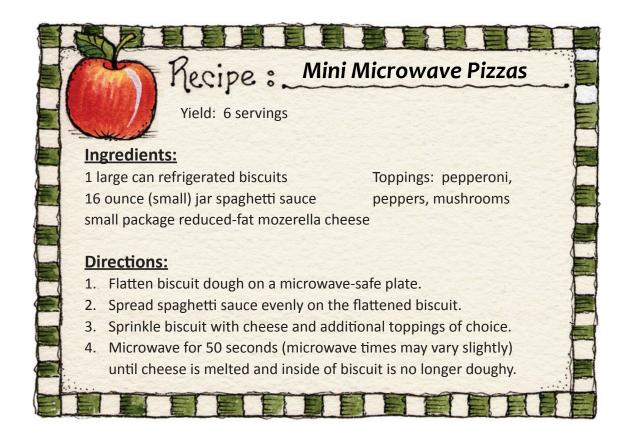
Activity 2: Making Mini Pizzas

Goal:

Learn how long it takes to microwave, to melt cheese and cook dough.

Materials Needed:

Microwave Ingredients as listed in recipe Microwave safe plate





Activity 3: Microwave Veggies

Steaming vegetables in the microwave keeps more vitamins in the food and is often faster than other cooking methods.

Goal:

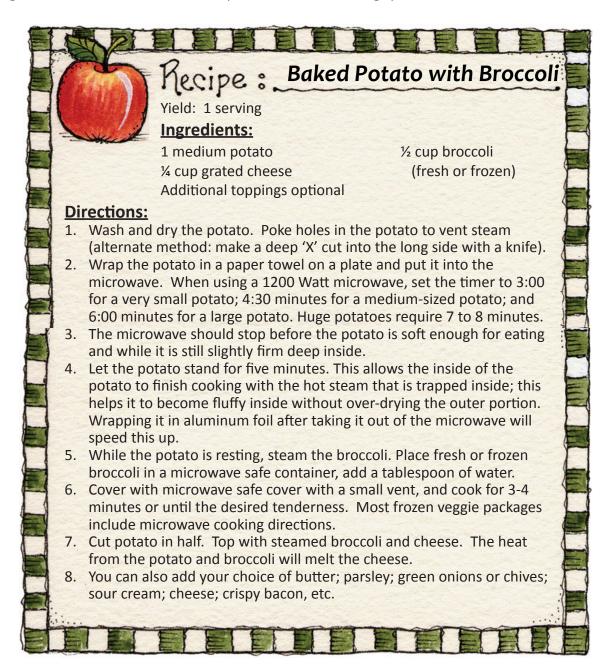
Learn how easy it is to microwave veggies for a quick, nutritious meal.



Materials Needed:

Microwave
Ingredients as listed in selected recipe

Microwave safe plate and cover Serving spoon





🔪 Activity 4: Zapped Apple

Goal:

Learn how to bake apples in the microwave.



Materials Needed:

Microwave Ingredients as listed in selected recipe

Microwave safe bowl Serving spoon





Safety Tip

- To core an apple with an apple corer: Place the apple on a cutting board. Press the apple corer into the center of the apple (surrounding the core) until you reach the cutting board. Twist the corer and pull it up toward you to remove the core.
- To core an apple with a knife and a vegetable peeler: Cut the apple in half with a sharp knife, and pry out the core with a vegetable peeler.

What have you learned?

- √ What was different about cooking in the microwave compared to a regular oven?
- √ What happened that you didn't expect would happen?
- √ What are some of the benefits and limitations when cooking with a microwave?
- √ What would you tell someone else that was considering cooking in a microwave?
- √ What are other ways that you would like to try using the microwave?

Recipe Sources

- √ Utah 4-H
- √ Weber County Extension
- √ 4-H Fun with Foods by Georgia Lauritzen

References and Resources:

- V Microwave Science at National 4-H video: http://www.youtube.com/watch?v=t0Mv7F9p808
- √ Microwave Cooking
- V Arizona Cooperative Extension: http://ag.arizona.edu/pubs/health/az1081.pdf

LESSON 5: FOR THE RECORD Microwave Munchies

	MEETIN	G	
Date			
Foods I prepared or helped p	repare		
I demonstrated			
This lesson taught me the fo	lowing skills		
Some of the activities I tried			

Type of Food Prepared	# Times Prepared	To Whom Served	Hours Spent	# Served	Cost