Lab: 30 Minutes Zucchini Fries

Ingredients:

- 1 zucchini
- ¼ cup bread crumbs
- 1/8 cup grated parmesan cheese
- 1 egg, beaten

Evaluation:

1. Hypothesize the function of the egg in this recipe.

Directions:

- 1. Preheat oven to 425° F. Line a jellyroll pan with aluminum foil and spray with cooking spray.
- 2. Cut the zucchini into spears about 2" long.
- 3. Stir breadcrumbs and Parmesan cheese together in a shallow bowl.
- 4. In a separate shallow bowl whisk the egg.
- 5. Take **ONE** zucchini strip and roll in the bread crumb mixture.
- 6. Dip the rest of the zucchinis into the egg mixture and then roll in the breadcrumb mixture to coat the zucchini.
- 7. Place coated zucchini fries on the jellyroll pan
- Bake for 20-24 minutes. After 10-12 minutes turn the zucchini and bake until golden brown.
- 2. Give reasons for your hypothesis.
- 3. Compare and describe the outcome of your zucchini fries using the table below:

Zucchini Not Dipped in Egg	Zucchini Dipped in Egg
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Lab: 30 Minutes
Vanilla Pudding

Ingredients:

- ¾ cup sugar
- 3 T cornstarch
- ¼ tsp. salt
- 2 cups milk
- 2 slightly beaten egg YOLKS
- 1 T vanilla extract
- 16 vanilla wafers

Evaluation:

- 1. Hypothesize the function of the egg in this recipe.
- 2. Give reasons for your hypothesis.

Directions:

1. In a saucepan combine sugar, cornstarch, and salt. Gradually stir in milk. (Pour about ¼ cup of milk in at a time mixing completely before you add more milk.)

*While stirring the mixture, scrape the bottom of the pan. Milk will easily burn.

- 2. Using a whisk, stir over medium heat until the mixture reaches a boil.
- 3. Remove ¼ cup of mixture and set aside. (This is your pudding without egg.)
- 4. In a mixing bowl add the 2 egg YOLKS and ¹/₂ cup of hot pudding mixture from the saucepan, mix well. (*This is call tempering the egg.*)
- 5. Once eggs are mixed, Immediately return them to the saucepan; cook for 2 minutes stirring constantly. Add vanilla extract.
- Remove from heat and serve with vanilla wafers.

3. Compare and describe the outcome of your pudding using the table below:

Pudding without Egg	Pudding with Egg

Lab: 30 Minutes
Puffed Pancakes

Ingredients:

- ¾ cup milk
- ½ cup flour
- 2 large eggs
- 1/8 tsp. salt
- ¼ cup powder sugar (topping)

Evaluation:

- 1. Hypothesize the function of the egg in this recipe.
- 2. Give reasons for your hypothesis.

Directions:

- 1. Place a nonstick mini muffin pan in the oven at 400° F.
- 2. In a small bowl place 1 Tbsp. of milk, ¼ cup of flour, and a dash of salt. Mix and set aside. (This is your eggless puffed pancake. Take it from the ¾ cup milk and ½ cup flour listed in the ingredients of this recipe.)
- 3. While muffin pan is heating, place remaining flour, milk, eggs, and salt in a blender and bend until smooth.
- 4. Carefully remove the HOT pan from the oven and quickly spray the muffin wells with nonstick spray. Fill each well ½ full of batter. Don't forget the eggless mixture!
- 5. Bake for 12-18 minutes until the batter puffs and is slightly golden on top.
- 6. DO NOT OPEN THE OVEN to check on the puffed pancakes.
- 7. Remove from oven and sprinkle with powder sugar.
- 3. Compare and describe the outcome of your zucchini fries using the table below:

Puffed Pancakes without Egg	Puffed Pancakes with Egg

Lab: 30 Minutes

Ingredients:

- ½ lb. ground beef
- 1 egg
- ½ tsp. salt
- ½ tsp. pepper
- 1 T water
- ¼ cup breadcrumbs
- 3 T parmesan cheese

Sauce:

- ¹/₂ cup ketchup
- ¼ cup brown sugar
- 2 T seasoned vinegar
- 1 tsp. mustard

Evaluation:

1. Hypothesize the function of the egg in this recipe.

2. Give reasons for your hypothesis.

Directions:

- Preheat oven to 350°. Line a cookie sheet with tinfoil. Place a cooking rack on top of the tin foil.
- 2. Place all the meatball ingredients in a bowl EXCEPT the egg and mix together.
- 3. Using about 2 Tbsp. of ground beef, form a meatball. Place it on the baking rack and fold down one corner of the tin foil to help you remember which meatball doesn't have egg.
- 4. Add egg to the remaining ground beef mixture and form into 1" meatballs.
- 5. Place remaining meatballs on cooking racks and bake at 350° for 15-20 minutes.

Sauce:

- 1. While meatballs are cooking prepare sauce.
- 2. Place all ingredients into saucepan and cook on med-high heat until warm.
- 3. Combine cooked meatballs with sauce and serve.

3. Compare and describe the outcome of your zucchini fries using the table below:

Meatball without Egg	Meatball with Egg