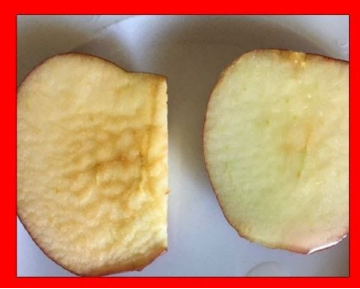


## Kitchen Science with Food

### Apple Experiment



Cut an apple into slices and place the slices into separate cups. (Help your child make labels for each cup.)

- Cup 1: Add nothing.
- Cup 2: Cover the apple slice with lemon juice.
- Cup 3: Cover the apple slice with water.
- Cup 4: Choose your own liquid.

Predict which slice(s) will turn brown. Wait 1-2 hours. What happened? Draw and color pictures to record the results

### Dancing Raisins

Fill a glass with ginger ale and drop in some raisins. Watch what happens:

<https://www.youtube.com/watch?v=WbQVdAmGzn4&feature=youtu.be>

Extensions:

- Try different types of soda.
- Try different types of “dancers.” (Craisins, popcorn kernels, macaroni...)
- Which combination of soda and “dancers” makes the best show?
- Play dance music and dance along!

### Fizzy Lemon Suds



Materials: Lemon cut in half, dish soap, baking soda

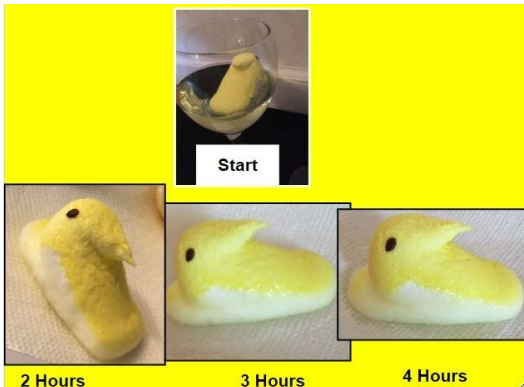
Procedure:

- Add a drop of dish soap to the lemon.
- Sprinkle the top of the lemon with a baking soda.
- Take a craft stick or spoon and push the baking soda into the lemon and mix it with the lemon juice.
- Keep the reaction going: What happens if you add juice from another lemon, add more baking soda or add more dish soap?

Extensions:

- Add color with a drop of food coloring or vegetable juice.
- Try the experiment with baking powder. How does it compare with baking soda?
- Try using other fruits such as limes or oranges. What happens?

### Peep Challenge: What is the best/fastest way to dissolve a Peep?



A Peep placed in a glass of tap water does not dissolve or change very much over a 4 hour period of time.

- What will happen to a Peep if you place it in warm/hot water?
- What will happen to a Peep if you place it in soda water? orange juice? milk? vinegar?

Extension: How do you get a Peep to sink?

### Runaway Pepper

Materials: Bowl of water, dish soap and ground black pepper

Procedure:

- Sprinkle the pepper onto the surface of the water.
- Place a drop of dish soap on your finger.
- Touch the surface of the water with your finger.

Watch in slow motion: <https://www.youtube.com/watch?v=usNKRRu0eQs&feature=youtu.be>

Extensions:

- What will happen if you increase/decrease the amount of pepper?
- What will happen if you use salt?
- What will happen if you use hand soap?

## **Shiny Pennies**

Materials: Lemon juice and salt and dull pennies

Procedure: Watch a video made by Mrs. Drook:

<https://www.youtube.com/watch?v=T6l5tZPxroE&feature=youtu.be>

Extensions:

- What will happen if you increase/decrease the amount of salt?
- What will happen if you use vinegar instead of lemon juice?
- What will happen if you soak the pennies for longer than 10 seconds?