

Elephant Toothpaste

Section: Chemical Reactions; Topic: Reaction Rates & Catalysts

Name: _____

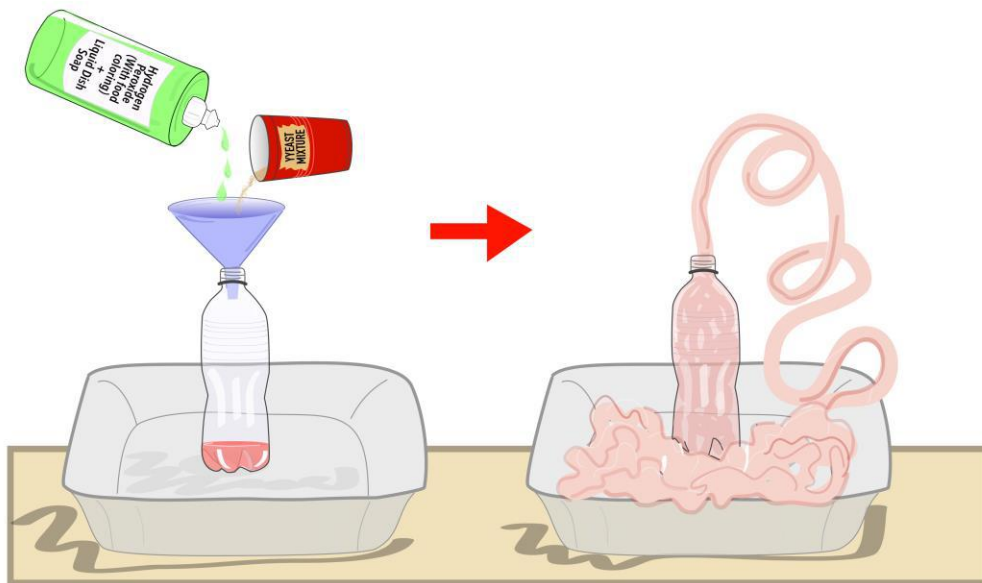
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Inquiry Question

Write down what you'll be learning today! What do you want to understand?

Procedure

1. Place empty soda pop bottle in the center of the cake pan with the funnel in the opening of the bottle.
2. Pour $\frac{1}{2}$ cup of hydrogen peroxide through the funnel and into the bottle.
3. Add about one tablespoon of Dawn® Ultra dishwashing liquid to the bottle along with a few drops of food coloring.
4. In the cup or bowl, mix one packet of yeast with warm water (be sure to follow the activation instructions on the yeast label).
5. Pour the yeast mixture into the bottle, quickly remove the funnel, and step back!



Observations, Data Collection & Analysis

Write down your observations below.

1. Describe each reactant and their physical properties. What do you think is the purpose of each reactant in this experiment? List some of the physical properties of each substance in the chart below!

Dawn® Ultra dishwashing liquid	Hydrogen Peroxide	Active Yeast

2. What is the purpose of adding liquid dish soap?

3. What purpose does the yeast have in the experiment? Explain.

4. Write the equation of the chemical reaction that occurs. What are the products of the reaction?

5. Describe the products. Did a chemical reaction or change occur? Use evidence to explain why or why not.

6. Feel the bottle at the end of the experiment. Does it feel warm or cool? What does that mean?

7. Draw a diagram of the reaction in process and label the components.