

Chemistry Experiment

Name: _____

Date: _____

Follow the steps below and answer the questions on this worksheet.

Baking Soda and Vinegar Volcano

Materials Needed:

- > 1 small plastic cup or a plastic bottle
- > Baking soda (2 tablespoons)
- > Vinegar (¼ cup)
- > Food coloring (optional, to make it more colorful)
- > Dish soap (optional, to make more bubbles)
- > A tray or a large dish to contain the mess
- > A spoon

Steps:

1) Set Up Your Volcano:

Place the plastic cup or bottle in the center of a tray or large dish. You can decorate the outside of the cup to look like a volcano if you want!

2) Add Baking Soda:

Spoon 2 tablespoons of baking soda into the plastic cup or bottle.

3) Optional Step:

Add a few drops of food coloring and a squirt of dish soap into the cup with the baking soda. The food coloring will make the eruption colorful, and the soap will create extra bubbles.

4) Pour in the Vinegar:

Pour ¼ cup of vinegar into the cup and step back to watch the reaction! The mixture will bubble up and flow out of the cup like a volcanic eruption.

1. What Happened when you mixed baking soda and vinegar, they reacted to form carbon dioxide gas, which created all the bubbles and fizz.

2. Why do you think bubbles formed when the baking soda and vinegar mixed?

3. What do you think would happen if you added more vinegar?

4. If you could change something about this experiment, what would you change?

5. What did you see happen when the vinegar touched the baking soda?