

Year 4 Science Experiment Sheet

Experiment Title: Mini Volcano Eruption

Student Name: _____

Class: _____ Date: _____

Aim of the Experiment

To observe a chemical reaction that produces gas and causes an eruption similar to a volcano.

Question

What happens when baking soda is mixed with vinegar?

Hypothesis

I think when baking soda is mixed with vinegar, _____

Materials

Baking soda, Vinegar, Dish soap, Food colouring, Small bottle or cup, Tray, Spoon

Variables

Manipulated: Mixing baking soda with vinegar

Responding: Bubbles / foam produced

Constant: Same amount of ingredients, same container

Method

1. Place the bottle or cup on a tray.
2. Add 2 spoons of baking soda.
3. Add food colouring.
4. Add dish soap.
5. Pour vinegar slowly.
6. Observe what happens.

Observations

Conclusion

Explanation

The reaction produces carbon dioxide gas which pushes the liquid out like a volcano eruption.

Safety Rules

Do not taste materials. Clean up after the experiment.

Reflection

One thing I learned today is: _____