

# 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

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### Conclusion

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### 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: \_\_\_\_\_