

## Lesson Plan: Mini-Volcanoes!

**Area:** Chemistry

**Age Group:** Kindergarten-1<sup>st</sup> Grade

### Supplies Needed:

- Plastic cups (one for each student)
- Large plastic trays for volcano to overflow into
- Baking Soda
- Vinegar
- Soap Detergent
- Food coloring (optional)

### Introduction:

- Fill in the blank: When a volcano erupts, \_\_\_\_\_.
- What is a volcano?
- Why does a volcano erupt?

### Demonstration:

- Put some baking soda in the plastic cup
- Next add a squirt of liquid soap detergent (and food coloring if wanted)
- Finally, add the vinegar to the cup and watch what happens!

### Directions:

- Provide each student with a cup that already has the baking soda, liquid soap detergent, and food coloring in it
- Also provide the students with a small cup of vinegar that they will add themselves
- Make sure that the plastic cups are in the trays (easy clean-up!)
- Ask students to follow along with you as you add the vinegar to the cup

### Follow-up:

- Class discussion about what happened
- Identify the volcano, magma, and lava in our demonstration (volcano=cup, magma=foam while it is inside the cup, lava=foam after it comes outside of cup)
- Brain-pop video!: <http://www.brainpop.com/science/theearthsystem/volcanoes/>
- What did the students learn?
- Coloring sheet of a volcano?