

## Homemade Science



**Theme:** Volcanoes

**Curriculum Area:** Earth Science

**Activity:** The children will learn about volcanoes and create their own. They will never forget the eruption!

**Age of Children:** 4-5 years of age

**Materials Needed:**

- Empty water bottles (no cap needed)
- Clay
- Rocks
- Paint
- Paint brushes
- Vinegar
- Food coloring
- Baking soda
- Goggles
- Apron

**Developmental Domains/ Objectives:**

1. Develop an understanding of volcanoes.

2. Enhance their knowledge of the natural world around them.
3. Responsibly erupt their volcano.

**Procedure:**

1. Have a discussion with the children about volcanoes, eruptions and magma. If the teacher already has a book on this topic it would be helpful to read it during circle time.
2. Have the children wrap clay around the water bottle in the shape of a volcano. (do not cover the cap and have a good base so it sits up straight.
3. Next have them stick rocks onto the clay.
4. Next they can paint their volcano with aprons on.
5. Have them wash their hands and let the volcano dry.
6. When the volcano is dry, have them take their volcanoes outside.
7. With the teacher's help, they will pour baking soda into their bottles.
8. The teacher will have vinegar that is dyed red with food coloring. Together, they will add the vinegar and watch their volcano erupt with goggles on.