**C:\Users\Degs\AppData\Local\Microsoft\Windows\Temporary Internet Files\Content.IE5\0ZDLYWB4\MC900329250[1].wmfVolcanoes**

**Materials**

* Newspaper
* Lab coats or aprons
* Modeling clay or salt dough
* Small empty plastic soda bottle
* Baking pan
* Red food coloring
* Liquid detergent
* Baking soda
* Funnel
* Vinegar

**Procedure**

1. Review with your students what they have learned about volcanoes. In discussing what they know about volcanoes, bring out the following background information:

* At Earth's center is a core of hot liquid iron and nickel.
* Earth is made up of interlocking pieces of land called *tectonic plates* .
* Heat from Earth's core can escape to the outside through a gap between tectonic plates, or heat can "punch" through the middle of a tectonic plate, releasing pressure and heat to the outside

1. Tell the students they are going to create model volcanoes that will help them visualize what a real volcanic eruption is like.
2. Divide the class into groups and distribute the materials.
3. Have the students in each group line their work area with newspaper and put on aprons.
4. Instruct students in each group to place a soda bottle in the baking pan, and mold the clay into a mountain around the bottle. Do not cover the bottle opening or get anything into the bottle.
5. Fill the bottle 75% full with warm water. Add a little red food coloring.
6. Next add 6 drops of liquid detergent to the bottle using the funnel.
7. Add 2 tablespoons of baking soda to the bottle using the funnel.
8. Pour two cups of vinegar into the bottle using the funnel (do this slowly).
9. The volcano will represent a volcanic eruption.

**Discussion Questions**

1. What type of volcano was made?

2. Does the flow of red liquid represent magma or lava? What is the difference?

3. What happens to the area where the lava flows?

4. What place on Earth has a volcano similar to the one you built?