

PURPOSE: Children will construct a model of an erupting volcano.

MATERIALS

Book Topics: volcano, Ring of Fire, magma, lava

Baking Soda

Vinegar

Heavy duty aluminum foil

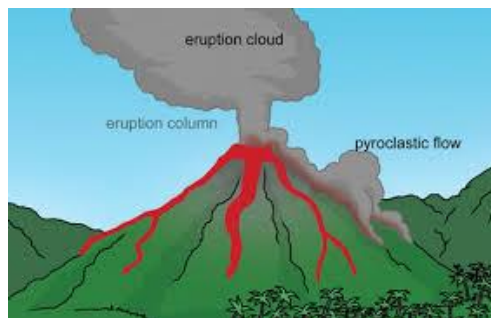
Newspaper



PROCEDURE:

1. Cover a table with newspaper.
2. Place a large piece of aluminum foil over a cup that is on a table. Push the middle of the foil into the cup to form a crater two inches deep. (Be careful not to tear the foil)
3. Stretch out the remaining foil over the outside edges of the cup to shape the volcano.
4. Fill the “crater” half full of baking soda.
5. Add one tablespoon of liquid soap.
6. Add four drops of red food coloring.
7. Slowly add one half to one cup of vinegar to the “crater”. Observe.
8. How does the simulation compare to a real volcano? How are they similar? How are they different?
9. Make a list of some of the landforms that were produced by volcanic action.

HOW IT WORKS: A volcano is formed when hot, melted rock from deep inside the Earth bursts through to the surface. This molten rock is called magma. This simulation is produced as a result of the reaction of mixing baking soda and vinegar. Carbon dioxide is released and causes the foaming action. The mixture flows down the sides of the simulated volcano like the lava flowing out of the crater of a real volcano. The soap and food coloring help to make the reaction more real as the lava starts out red hot and runny, but eventually cools off and hardens.



WRITING PROMPT

You have just learned that a volcano is formed when hot, melted rock from deep inside the Earth bursts through to the surface.

Think about what it would look like when a volcano is erupting.

Pretend you are a newspaper reporter on the scene of an erupting volcano. Write a description of what is happening. Include as many details about the event as possible for your readers.

Parent Signature: _____

**FAMILY SCIENCE PROJECT**

Date: _____

Name: _____

Teacher: _____

Hypothesis (What do you think will happen?)

Date/Observation:

Conclusion: (What you learned or discovered):

*(*You may continue your observation on another sheet. You may want to create a graph to record your data.)*

For the reading portion of Family Science, you may choose to read a book or an article, OR you may use the Internet in order to find some background information concerning this Family Science Project. If you read a book or an article, please include the complete title and author. If instead you looked up the information on the Internet, please include the complete website.

We read the following book, **OR** researched the information on the Internet:

Book Title: _____ Author: _____

Internet-Complete Website _____

Writing Prompt (minimum 5 sentences)
