

Name _____

Modeling Volcanoes



Question: Why does magma rise to the surface of the Earth?

Prediction: _____

Materials:

1 closed bottle of carbonated soda	Hand lens	Vinegar	Baking soda
Beaker	Spoon	Raisins	Graduated cylinder
Water			

Procedure:

1. Put on your goggles.
2. Observe the bottle of soda. **Record your observations.**
3. Put 3 spoonfuls of baking soda in the beaker.
4. Add 3-4 raisins to the baking soda.
5. Add 10 ml of water to the baking soda. Stir.
6. Slowly add 50 ml of vinegar to the baking soda mixture.
7. **Record your observations.**

Data:

Observations	

Questions:

1. Where are the bubbles coming from in the bottle of soda?

2. Why are the bubbles moving up?

3. What would happen if the bottle of soda is left open for a long period of time?

4. How do the bubbles in the bottle of soda relate to volcanic activity?

5. What do the raisins represent in this model?

6. What do the bubbles represent in this model?

7. State one advantage and one limitation to this model.

Conclusion: Write a short paragraph answering the original question. Explain how this model relates to actual volcanic activity. Make sure to use the words *gas*, *magma*, and *pressure* in your paragraph. Your paragraph should have at least five sentences and a topic and concluding sentence.
