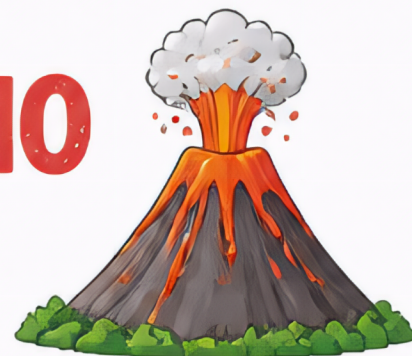




HOMESCHOOL SCIENCE EXPERIMENT

MAKING A VOLCANO

with Baking Soda and Vinegar



Name: _____ Date: _____

QUESTION

What happens when baking soda and vinegar are mixed together?

HYPOTHESIS

I think _____

because _____

MATERIALS

- Baking soda
- Vinegar
- Small empty bottle or jar (plastic works great)
- Modeling clay or play dough
- Tray or baking sheet
- Food coloring (optional)
- Dish soap (optional)
- Funnel or spoon
- Measuring cup
- Safety goggles (optional)



PROCEDURE

- 1 Place the empty bottle or jar in the center of the tray.
- 2 Build a volcano shape around the bottle using modeling clay or play dough. Make sure the top opening of the bottle is exposed.
- 3 (Optional) Add a few drops of food coloring and 1–2 drops of dish soap into the bottle.
- 4 Use a funnel or spoon to add 2–3 tablespoons of baking soda into the bottle.
- 5 Carefully pour 1/2 cup of vinegar into the bottle.
- 6 Step back and watch your volcano erupt!

EXPLANATION

When baking soda (a base) and vinegar (an acid) are mixed together, they react to make a new substance.

This reaction produces _____, which is a gas. The gas creates bubbles that foam up and flow out like lava!

This is a chemical reaction.

OBSERVATIONS

What did you see happen?

What color was the "lava"?

How did it smell?

CONCLUSION

My hypothesis was (circle one): Correct Partly Correct Incorrect

What did you learn?

EXTEND THE FUN!

Try these ideas:

- Add different amounts of baking soda or vinegar. What happens?
- Use different colors or add glitter to your lava.
- Research real volcanoes. How are they similar to your model?



SAFETY FIRST!

Ask an adult for help.
Wear goggles if you like.
Do not taste any materials.