

Exploding Mini-Volcanoes!

Objective: Create an exciting chemical reaction.

Supplies:

1 Small Jar

1 Cup

Baking Soda

Dish Soap

Vinegar

Food Coloring

Popsicle Stick

Procedure:

Please conduct experiment at supply table.

- Pour 3 spoonfuls of baking soda into a glass jar.
- Add a small squirt of dish soap to the jar of baking soda.
- Place filled glass jar in plastic tub.
- Take a glass and fill it with vinegar.
- Add to the glass a vinegar a drop of food coloring.
- Stir with popsicle stick until the color is evenly distributed throughout the vinegar.
- On the count of 3, pour the vinegar into the jar. Stop when you see a reaction.

- As the reaction fades, add more vinegar and observe what happens.
- Repeat steps 6 + 7 until you run out vinegar.

Discussion Questions for the Family

What did you think of this experiment? Did you like it? Why or why not?

What do you think adding dish soap to the mini-volcano did?

Why do you think the mini-volcano kept erupting as more vinegar was added?

How it works:

“The baking soda (sodium bicarbonate) is a base while the vinegar (acetic acid) is an acid. When they react together they form carbonic acid which is very unstable, it instantly breaks apart into water and carbon dioxide, which creates all the fizzing as it escapes the solution.”

- From Sciencekidz.co.nz
(<http://www.sciencekids.co.nz/experiments/vinegarvolcano.html>)