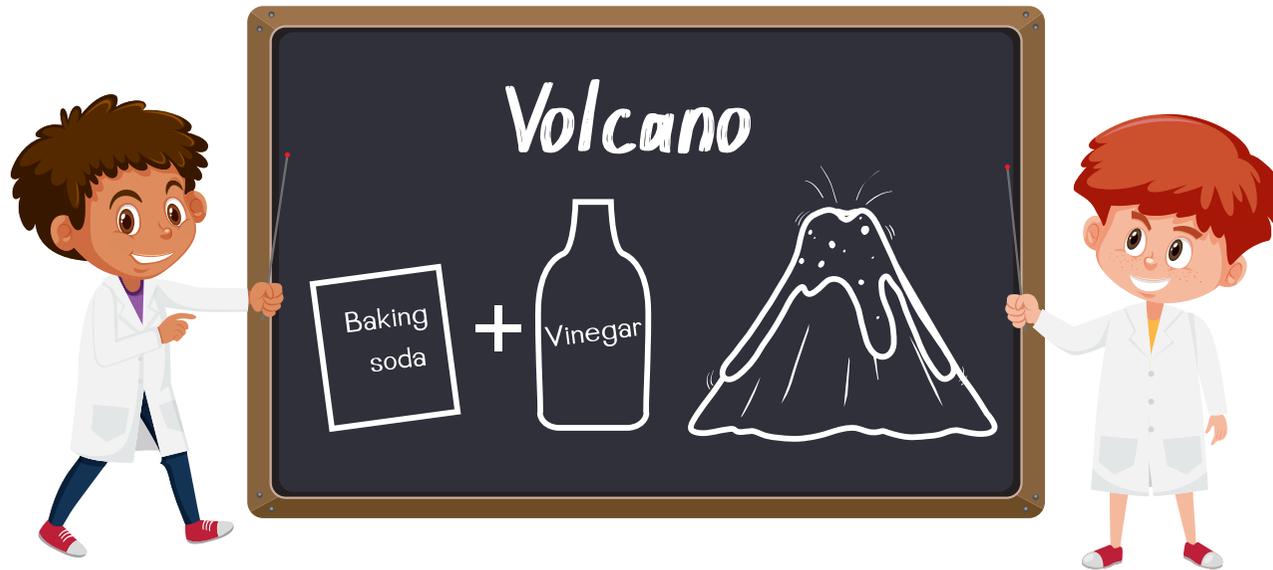


# Make a Volcano



## What happens and why:

A chemical reaction between vinegar and baking soda creates a gas called carbon dioxide. Carbon dioxide is the same type of gas used to make the carbonation in soft drinks. What happens if you shake up a soda? The gas gets very excited and tries to spread out. There is not enough room in the bottle for the gas to spread out so it leaves through the opening very quickly, causing an eruption!

## What you need:

- 10 ml of dishwashing liquid
- 100 ml of cold water
- 400 ml of white vinegar
- Food colouring • Funnel
- Baking soda slurry (fill a cup about ½ way with baking soda, then fill the rest of the way with water)
- Empty 2 litre bottle

## Instructions:

**NOTE:** This should be done outside owing to the mess.

- Pour the vinegar, water, dish washing liquid and 2 drops of food colouring into the empty soda bottle.
- Use a spoon to mix the baking soda slurry until it is all a liquid.
- Eruption time! ... Use the funnel to pour the baking soda slurry into the soda bottle quickly and step back!

## Extra Experiments:

1. Does the amount of vinegar used change the eruption?
2. Does the amount of water used change the eruption?
3. Does the amount of baking soda used change the eruption?