

## You will need:

- ✓ Red food dye
- ✓ Warm water (acts as an accelerant)
- ✓ Bicarbonate of Soda
- ✓ Vinegar

Does the shape of the volcano affect the direction the eruption travels?

# Baking-soda Volcano



## Instructions:

1. The first step is to build the volcano — wrapping a jar in Play-Doh will do the trick, or use papier-mâché for those feeling a bit more ambitious. Decorate it with whatever scraps you have, or some natural items from a park or yard, like pebbles, grass and flowers. Go outside or prepare for some clean-up inside.

To erupt our volcano we –

1. Add 2-3 tea spoons of bicarbonate of soda to our plastic bottle/jar.
2. Pour in half a glass of warm water mixed with the red food dye.
3. Pour in approximately a glass full of (inexpensive) vinegar.

## 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.

