

# Volcanoes



## What is a volcano?

A volcano is a very deep hole in the Earth's top layer that can let out hot gases, ash and lava. Many volcanoes are also mountains. Volcanoes have long shafts that go all the way down through the Earth's first layer, the crust, to magma in between the crust and the mantle (the Earth's second layer). It's so hot that rocks melt into liquid! This is called magma, which travels up through volcanoes and flows out as lava. Let's recap the Earth's three layers: the crust, mantle, and core. Gas, ash and magma can come out of volcanoes. When magma flows out of a volcano, it's called lava. Most of the gas that comes out of volcanoes is poisonous and some can be found underwater! Are you ready for an experiment? Let's see if we can erupt our own volcano!

## Key vocabulary:

- Volcano
- Magma
- Ash
- Gas
- Erupt
- Poisonous

## What you need:

- 10 ml of dish soap
- 100 ml of cold water
- 400 ml of white vinegar
- Food colouring
- Baking soda slurry (fill a cup about  $\frac{1}{2}$  with baking soda, then fill the rest of the way with water)
- Empty 2 litre coke bottle



## Step-to-step guide:

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

