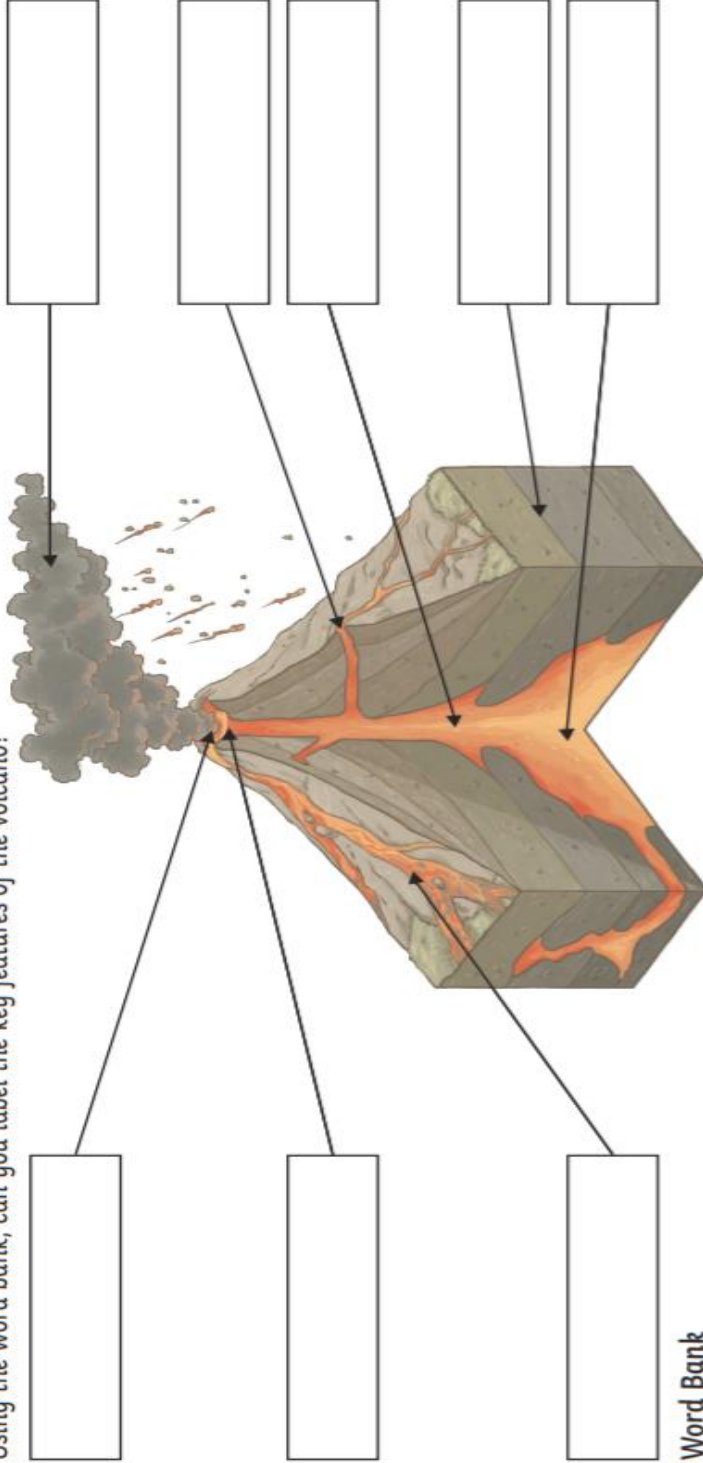


Tuesday 6<sup>th</sup> July 2021

To be able to know how volcanoes are formed

# Volcano Labelling Activity

Using the word bank, can you label the key features of the volcano?



Word Bank

ash cloud	secondary vent	magma chamber	main vent
lava flow	layers of rock	conduit	crater

Challenge: Write a definition of each word and add it to the word bank.

If you have some of these bits and pieces at home, we would like you to reenact your own volcanic eruption!

### You will need:

1. Washing up liquid
2. Vinegar
3. Plastic cup
4. Bicarbonate of soda
5. Red food colouring



You could build a paper mache volcano and put the cup inside it for extra effect!

### Method:

1. Fill your cup just over half full with water, add 3 teaspoons of bicarbonate of soda and give it a good stir until most of the bicarbonate of soda dissolves.
2. Add two drops of red food colouring and a good squirt of washing up liquid into the cup and once again give it a stir.
3. Make sure your volcano is in the kitchen or outside (or somewhere you don't mind making a mess).
4. Quickly pour in just under a quarter of a cup of vinegar and enjoy your very own volcanic eruption!

### The science behind it:

You just made a chemical reaction! By mixing the acid (vinegar) and the alkali (bicarbonate of soda), bubbles of carbon dioxide ( $\text{CO}_2$ ) were released like in a pyroclastic flow. A pyroclastic flow moves very fast and is extremely dangerous, whilst lava flows move slowly and aren't much of a threat.

[illegible]