

## Science Activity: Make Your Own Volcano.

### Learning Objectives:

- Explore ideas and theories using imagination, creativity and play.
- Engage and interact with others
- Develop language.
- Facilitating children's explanation, prediction, and discussion of the volcano experiment and how it works.
- Developing children's scientific knowledge about volcanoes, and chemical reactions, and how volcanic rocks are formed (geology).
- Children resource their own learning through connecting with people, place, technologies and natural and processed materials either online or outdoors.



### 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 (CO<sub>2</sub>) were released.

### You will need:

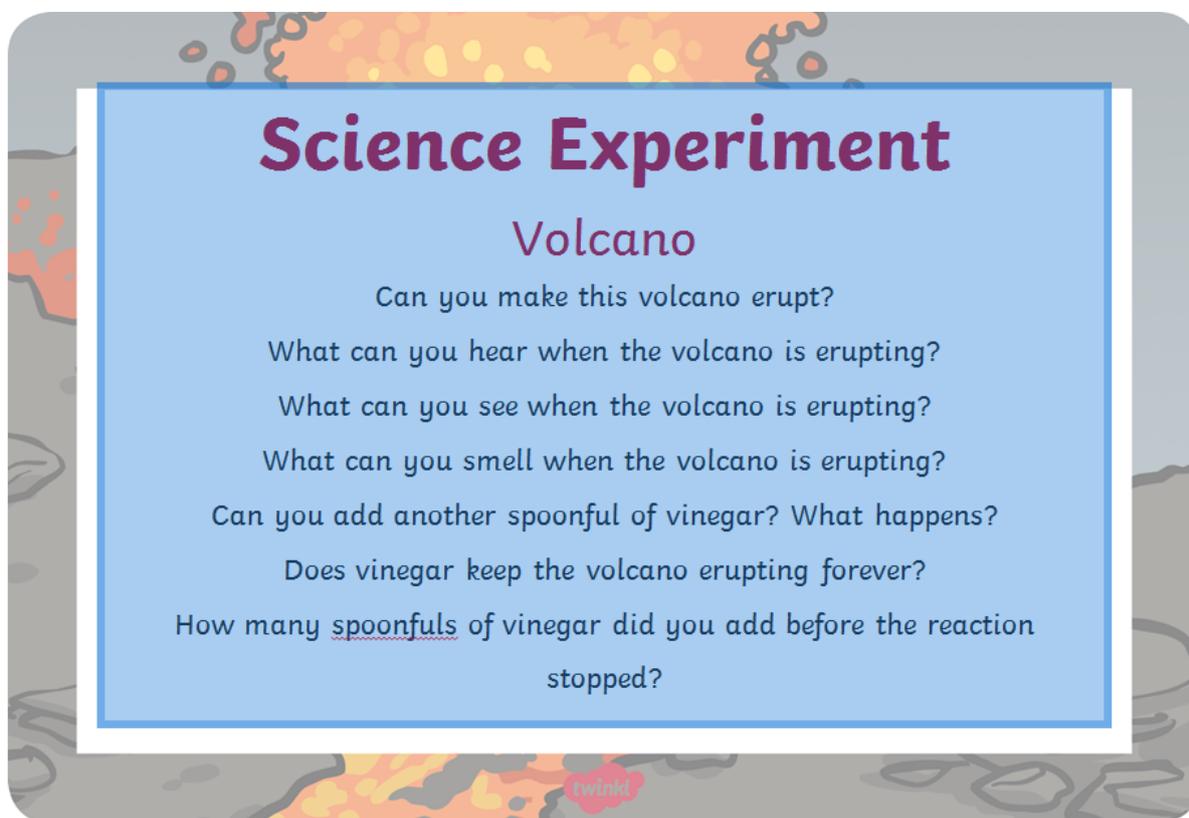
1. Washing up liquid
2. Vinegar
3. Plastic cup or bottle
4. Bicarbonate of soda
5. Red food colouring

### 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!

### Going further

- This experience can be extended by facilitating children's recounting of the experience, and their favourite parts of the experience through conversation, signing, Makaton, additional play, writing, and fine arts experiences.
- You could build a paper mache volcano and put the cup or bottle inside it for extra effect!



## Science Experiment

### Volcano

Can you make this volcano erupt?

What can you hear when the volcano is erupting?

What can you see when the volcano is erupting?

What can you smell when the volcano is erupting?

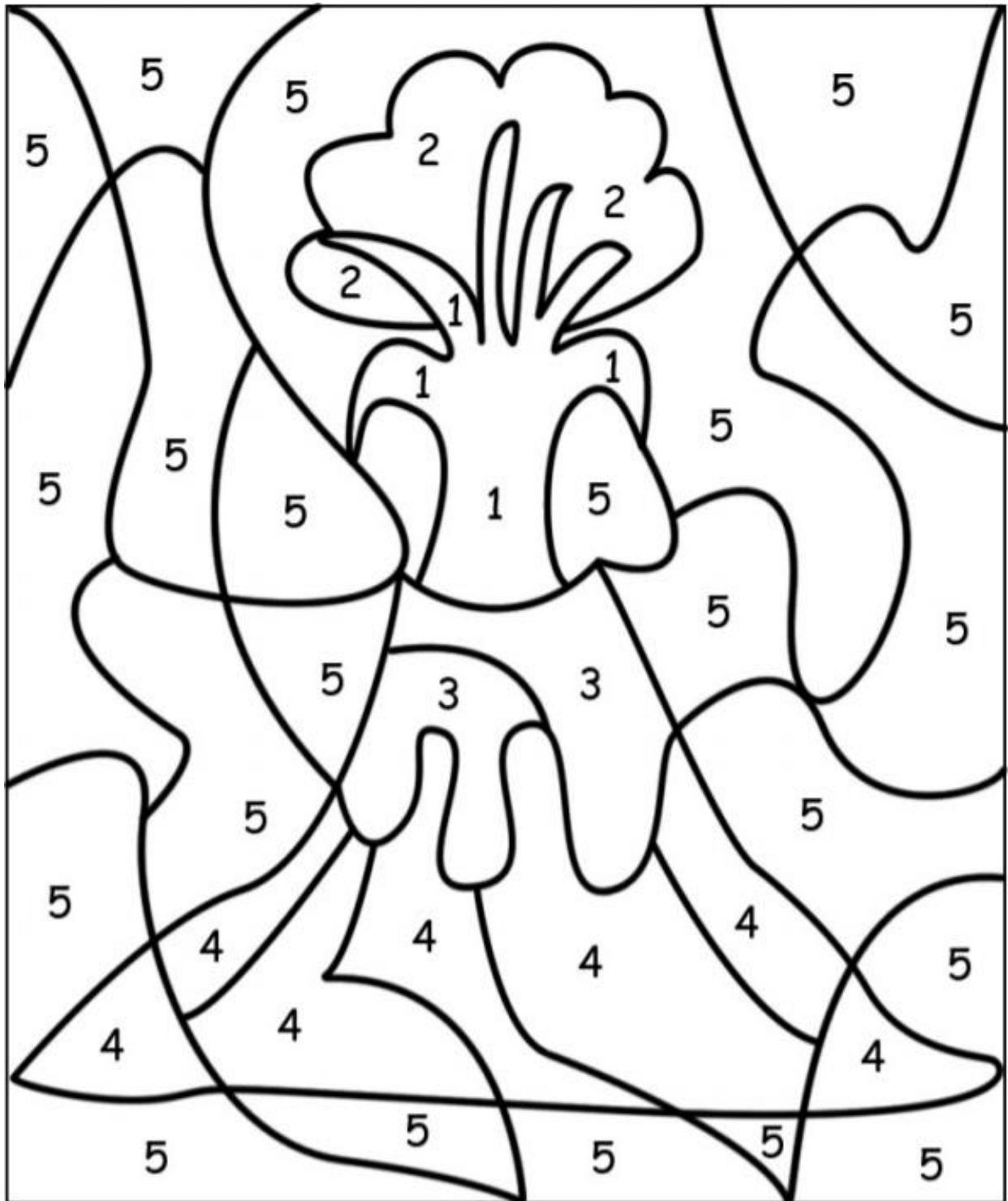
Can you add another spoonful of vinegar? What happens?

Does vinegar keep the volcano erupting forever?

How many spoonfuls of vinegar did you add before the reaction stopped?

twinkl

Please print out the colouring pages below and enjoy colouring your volcano!



1 = Yellow

2 = Gray

3 = Orange

4 = Brown

5 = Blue

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