

Disclaimer

Potentially Hazardous Activities Resource

We hope you find the information on our website and resources useful. The activities set out in this resource are potentially hazardous. The activities are not suitable for all children and adult supervision may be required for some of the activities. It is your responsibility to assess whether the children in your care are able to safely carry out the activities and whether the children require adult supervision. You are responsible for carrying out proper risk assessments on the activities and for ensuring that activities can be carried out safely. We are not responsible for the health and safety of your group or environment so, insofar as it is possible under the law, we cannot accept liability for any loss suffered by anyone undertaking the activity or activities referred to or described in this resource. It is also your responsibility to ensure that those participating in the activity are fit enough to do so and that you or the organisation you are organising for has the relevant insurance to carry out the physical activity. If you are unsure in any way, we recommend that you take guidance from a suitably qualified professional.

Awe and Wonder

Make Your Own Volcano

You will need:

Vinegar



Washing-up liquid

Plastic Cup



Baking soda

Red food colouring



Method:

1. Fill your glass just over half full with water, add 3 tea spoons of baking soda and give it a good stir until most of the baking soda dissolves. Then add 3 drops of red food colouring and stir until it turns red.
2. Add 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 Bit

You just made a chemical reaction! By mixing the acid (vinegar) and the alkali (bicarbonate of soda), bubbles of carbon dioxide (CO₂) were released like in a pyroclastic flow. These move very fast and are extremely dangerous, whilst lava flows move slowly and aren't much of a threat.