

REACHING OUT

We want to reach out!

As schools return, we look to support each school's efforts to get involved with the rich tapestry of culture and creativity within the borough. Tameside Cultural Services have been looking at how we can best use our years of experience and resources to support schools. We will link in with the Philosophy for Children, as well as the National Curriculum, the schools' recovery curriculum and the Five Ways to Wellbeing: Connect, Be Active, Take Notice, Keep Learning and Give.

Each month, we will share information relating to our education offer as well as giving further ideas and ways to engage with our offer in your classroom. There will be activities from each of the Cultural Services teams and we will take the opportunity to highlight one of our site based workshops as when we are able to, we cannot wait to welcome you back to our sites and great outdoors.



ROCKS FOSSILS & SOIL

This exciting full day workshop begins with your class taking part in 'Geologist training' and getting familiar with the 3 main rock types. They will then don their hard hats and head off on a short walk, seeing the rock formations that shaped the land. Your class will find out about different kinds of rocks and how they are formed.

The afternoon is time for a fossil hunt in the River Medlock.



Tameside Cultural Services

MAKE AN ERUPTING VOLCANO



The earth is an exciting, explosive place. Volcanic eruptions are one of the most powerful natural forces on our planet.

Making your own miniature erupting volcano is a great way to start learning about these incredible geological features.



Go outside or prepare for some clean-up inside.

Put the container into the 'volcano' at the top.

Mix detergent, food colouring and vinegar and pour into the container in the volcano.



Mix bicarbonate of soda and water in a plastic cup and stir.

Pour the bicarbonate soda and water mixture into the volcano container. **Wait for the eruption!**



Variables to Test

A science experiment is only an experiment if you change one thing and measure the effect!

The following are some variables. Make sure that you keep everything else the same.

- 1) The amount of vinegar that you use. You could dilute the vinegar too!
- 2) The amount of bicarbonate soda
- 3) Does it make a difference if you use different amounts or types of detergent?
- 4) Can you vary the size of the crater?
- 5) Does vinegar temperature affect how fast the volcano erupts?
- 6) What can be added to the "lava" to slow it down and make it more like real lava?



What you need:

A volcano – Talk to an art teacher about how to make a volcano out of paper mache or plaster. You can also use clay or use a mound of sand and create a volcano mound in a tray.

100mL of Vinegar

4 Tablespoons of bicarbonate soda mixed with 150mL of water

150mL of detergent

A few drops of orange or red food colouring

A 500mL container

To have a chat about how we can help support school, contact:

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*Reacting vinegar and bicarbonate soda together produces carbon dioxide and water. The reaction is as follows: **Vinegar + Bicarbonate Soda** → **Carbonic Acid + Sodium Acetate***

The carbonic acid is unstable though, so it breaks down into liquid water and carbon dioxide as a gas, causing the massive 'build-up' of pressure you saw in the experiment. The water is left in the vinegar solution whilst the carbon dioxide rises and fills the balloon on the bottle.

