

Teacher Guide

Erupting Volcanoes

Levels : First and Second

Duration: 45 mins

Maximum Number of Pupils: 30

What to Expect

Pupils will discuss volcanoes, what they know about their shape and how they are made. They will go on to talk about lava, how it is formed and the different types.

They are put into groups of 3 or 4 and given materials to build a model volcano. They are then given time to experiment with the thickness of lava and decide what type of lava they would like their model volcano to have. Groups will then erupt their volcanoes after deciding where around the volcano would be safe zones for people to live.

What is Covered

- Identifying chemical reactions
- Using problem solving skills
- Predicting outcomes of an experiment
- Effect of viscosity on lava flow

Curriculum for Excellence links

We have identified the Curriculum for Excellence experiences and outcomes to which this workshop can most significantly contribute:

First Level SCN 1-15a

Through exploring properties and sources of materials, I can choose appropriate materials to solve practical challenges

First Level MNU 1-22a

I can use appropriate vocabulary to describe the likelihood of events occurring, using the knowledge and experiences of myself and others to guide me.

First Level
LIT 1-07a

I can show my understanding of what I listen to or watch by responding to and asking different kinds of questions.

First Level
LIT 1-10a

I can communicate clearly when engaging with others within and beyond my place of learning. Using selected resources as required.

Second Level
SCN 2-17a

Having explored the substances that made up the Earth's surface, I can compare some of their characteristics and uses.

Second Level
SCN 2-19a

I have collaborated in activities which safely demonstrate simple chemical reactions using everyday chemicals. I can show an appreciation of a chemical reaction as being a change in which different materials are made.