

Year 3 DT – Volcanoes

What I should already know:

- Design purposeful, functional, appealing products for themselves and other users based on design criteria
- Select from and use a wide range of materials and components, including construction material according to their characteristics
- build structures, exploring how they can be made stronger, stiffer and more stable



At the end of this topic, I will know:

- Create own volcanic eruption using a range of ingredients.
- Design and create a Papier Mache volcano with a working volcanic eruption.
- Use research and develop design criteria to inform the design of innovative, functional, appealing products that are fit for purpose.
- select from and use a wider range of tools and equipment to perform practical tasks
- Apply their understanding of how to strengthen, stiffen and reinforce more complex structures



Key Facts:

Bicarbonate of soda, washing up liquid and vinegar allows you to create your own volcanic eruption.

PPE is a necessary requirement when conducting a reactive experiment.

Some of the equipment we will use for our volcano model are: A3 card, plastic bottle, pencil, scissors, newspaper and tape.

Papier-mache originates from China.

Vocabulary

Heatproof	Able to resist great heat.
Eruption	An act or instance of erupting.
Model	A 3D representation of a person, thing or a structure. Typically much smaller than the original
Design	A plan or drawing produced to show the look and function or workings of a building, garment, or other object before it is made.
Develop	Grow or cause to grow and become more mature, advanced, or elaborate.
Reaction	Something done, felt, or thought in response to a situation or event.
Materials	The matter from which a thing is or can be made.
Evaluate	To think about or work out the quality, importance or value of something.
Construct	Build or make (something, typically a building, road, or machine).
Structure	The arrangement of and relations between the parts or elements of something complex.
Shape	The external form, contours, or outline of someone or something.