

Develop your creativity:

- ♦ Create a painting of a famous volcano. (2 points)
- ♦ Draw a diagram to explain the movement of tectonic plates. (2 point)
- ♦ Create a cross section model of the earth and its different layer i.e. Crust, core. (3 points)

Extend your research skills:

- ♦ Create a fact file about an Earthquake of your choice. (2 points)
- ♦ What makes volcanic eruptions more harmful for the people in the locality? (1 point)
- ♦ Create a list of pros and cons for living near a volcano. (1 point)

prospectus



This half term's POWER Project is:

'Disasters-Volcanoes and Earthquakes'

Each activity is worth a set number of points. We would like you to have collected 8 points by the end of the half term. For example Making a Volcano = 3 points and a fact file about Earthquakes = 2 points. Therefore you have a total of 5 points.

Explore your mathematical skills:

- ♦ Plot on a map where 10 significant volcanic eruptions have occurred. Do you notice any patterns? (2 points)
- ♦ Create a table of the top 10 Earthquakes on the Richter scale. (2 points)
- ♦ Research the key dimensions of a volcano of your choice. I.e. height, width etc. (1 point)

Explore your locality:

- ♦ Research if _____ has been affected by any natural disasters. (1point)
- ♦ Has England ever been affected by an Earthquake? (1 point)

Additional Maths Activity - 3 POW Points

A 1964 earthquake that occurred in Prince William Sound, Alaska, lasted for 7 minutes. During this earthquake, the ground rolled like waves on the ocean and huge cracks opened in the ground. How deep were these cracks? Some were 3 feet wide and 40 feet deep! Many buildings fell into these deep crevices.

If the crack in the Earth were a rectangular prism with sides of 5 metres (height and width) and a depth of 40 metres, what would be the volume of this hole?

Approximately how many cars would fit in a hole this size?

Use the space below to find a solution to this problem.

The volume of the hole: _____

The approximate number of cars that would fit in the hole: _____



Rectangular Prism:

W = the width of the prism

D = the depth of the prism

H = the height of the prism

