

Big Question: What makes the Earth angry?

Year: 3

Term: Autumn

**What? (Key knowledge)**

- Know how volcanoes are formed

1. Magma rises through cracks or weaknesses in the Earth's crust. 2. Pressure builds up inside the Earth. 3. When this pressure is released, e.g. as a result of plate movement, magma explodes to the surface causing a volcanic eruption. 4. The lava from the eruption cools to form new crust. 5. Over time, after several eruptions, the rock builds up and a volcano forms.

- Know what causes an earthquake

An earthquake is the shaking and vibration of the Earth's crust due to movement of the Earth's plates (plate tectonics). Earthquakes can happen along any type of plate boundary. Earthquakes occur when tension is released from inside the crust. Plates do not always move smoothly alongside each other and sometimes get stuck. When this happens pressure builds up. When this pressure is eventually released, an earthquake tends to occur.

- Know where some of the world's most famous volcanoes are

Mount Vesuvius, near Naples, Italy Krakatoa, Indonesia  
Mount St. Helens, Washington, USA

- Describe how an earthquake impacts on humans' lives.

Destruction of buildings, roads and flooding from tsunamis

- Describe how a volcano impacts on humans' lives

ash falling on land and buildings ash clouds leading to transport problems

**What? (Key vocabulary)**

Word

Transport—vehicles used to move people or things from one place to another

Locality— a place and the area that surrounds it

Magma— molten substance beneath the earth's crust

Lava—molten rock that flows from a volcano

Crater— the mouth of a volcano

Earth's crust— the earth's outer layer

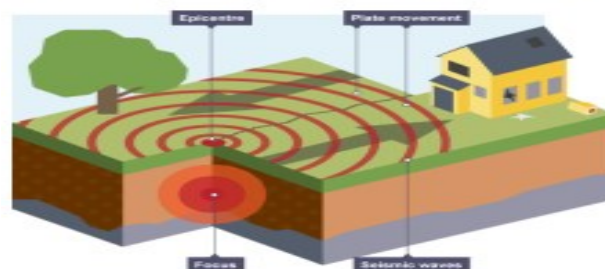
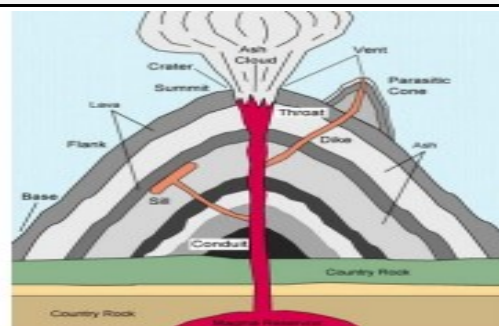
Tectonic plates— pieces of earth's crust

Epicentre— the point on the earth's surface vertically above the focus of an earthquake

Vibration—quick side to side movement

Compass— an instrument with a magnetic needle that

**Images**



**Curriculum Coverage**

Use maps, atlases, globes and photos to locate and compare countries that have volcanoes

Use the language of north south east west

Locate the equator

Analyse and draw conclusions