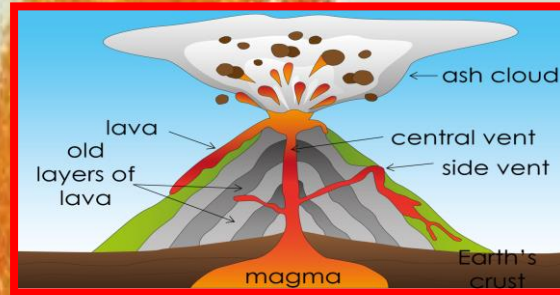


Year 4 Volcanoes and Earthquakes

Autumn 2

Vocabulary

active	Active volcanoes have a recent history of eruptions; they are likely to erupt again.
dormant	Dormant volcanoes have not erupted for a very long time but may erupt at a future time.
structure	A thing made up of a number of parts joined together in a certain way.
tsunami	A very large, often destructive sea wave caused by a earthquake or volcanic explosion under the sea.
tectonic plate	A huge slab of rock, moved by the mantle below it.
plate boundary	Where two plates meet.
ash cloud	Tiny particles of rock ejected from a volcano into the air
crater	A hollow area at the top of a volcano shaped like the inside of a bowl.
fault line	A long crack in the surface of the earth, where tectonic plates meet.



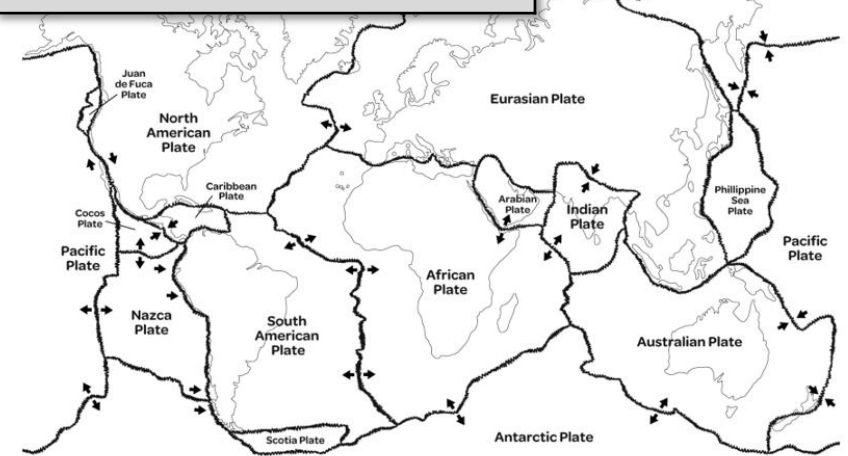
Famous volcanoes



Volcanoes

Volcanoes are usually found on or near the edge of a tectonic plate. Plate movements cause eruptions. When a volcano erupts, pressure builds up underground and hot magma is forced upwards through the central vent. Magma can also be pushed through side vents, which can cause the volcano to erupt sideways. Lava, ash and flying rocks are ejected from the crater and the lava flows down the side of the volcano and eventually sets hard. This adds height to the volcano.

The Earth's Tectonic Plates



Earthquakes

The Earth is made of three main layers: the outer layer is called the crust; the middle layer is solid hot rock called the mantle. The inside layer is called the core and it is the hottest part of the Earth. The Earth's surface [the crust] is made up of tectonic plates which are huge slabs of rock that move. They move because the mantle below them is moving. When tectonic plates move, an earthquake can happen. Volcanoes are usually found on or near the edge of a tectonic plate. Plate movements cause eruptions.

The Effects of Earthquakes on Land and People

An earthquake can cause damaged roads, collapsed buildings/bridges and rubble-covered land.

Long term effects can be:

- It takes a long time to rebuild houses and buildings
- People have lost their belongings and are left poorer
- Schools are closed for a long time
- Food may struggle to reach people and local food sources may have been wiped out
- Hard to get clean water and disease can spread



Famous earthquakes

