

# Knowledge organiser - Volcanoes and Earthquakes

# What will we be learning?

- The structure of the Earth.
- Features of a volcano.
- Famous volcanoes and earthquakes.
- Effects of volcanoes and earthquakes.
- Preparing for an earthquake.
- What it's like living near a volcano.

### **Key facts**

Famous volcanoes:

Soufrière (St Lucia, North America), Eyjafjallajökul (Iceland, Europe), Popocatépetl (Mexico, North America), Vesuvius (Italy, Europe), St Helens (USA, North America), Etna (Italy, Europe).

# Key knowledge

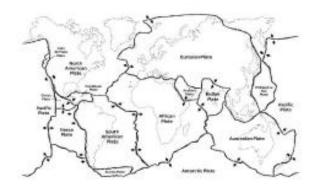
The Earth is made up of layers. The top layer, the Earth's crust, consists of large slabs of rocks, called plates.

The plates move as the hot mantle flows beneath them. The movement of the plates causes earthquakes and leads to volcanoes erupting.

Earthquakes are measured on the Richter scale, They can cause devastating damage to buildings, roads and land.

When volcanoes erupt they spew out lava. This is a very hot liquid that destroy anything in its path.





Place names	Geographical terms and processes	Locational terms
Great African Rift Valley	crater	epicentre
Haiti	disaster	plate boundary
Iceland	dormant	
Japan	eruption	
Mauna Loa	magma	
Pacific Ring of Fire	tsunami	

## Glossary

dormant: a dormant volcano is a volcano, like Kilimanjaro, that has not erupted for a long time

epicentre: where an earthquake starts and is felt most strongly

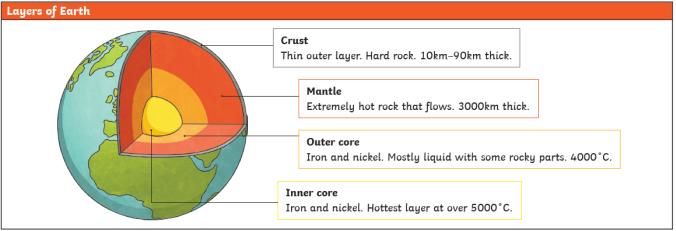
tsunami: a huge, powerful wave caused by an earthquake

Extreme Earth Year 3

Key Vocabulary		
cumulonimbus cloud	Large thunderstorm clouds.	
erupt	To suddenly burst out causing lava to explode out of the earth's surface.	
fossils	The remains of plants or animals that lived a long time ago which can be found deep in the earth.	
magma	Extremely hot, liquid rock.	
tectonic plates	The earth's crust is made up of large areas called tectonic plates that join together.	



Layers of Soil		
humus	Rotting dead leaves and animals.	
topsoil	Plant's roots grow here. Very few rocks.	
subsoil	Rocks and stones. Full of nutrients. Tree roots may reach. Fossils.	
bedrock	A mass of rocks. Fossils.	





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#### Volcanoes

- Volcanoes are made when pressure builds up inside the earth. This affects the earth's crust causing magma to sometimes erupt through it.
- Active volcanoes have erupted in the last 10 000 years.
- Dormant volcanoes haven't erupted in the last 10 000 years but may erupt again.
- · Extinct volcanoes aren't expected to erupt again.

#### Earthquakes

- Earthquakes are caused when the earth's tectonic plates suddenly move.
- Most earthquakes occur near the tectonic plate boundaries.
- Earthquakes can cause lots of damage to roads, buildings and property.

