

Year 3 Geography Knowledge Organiser Volcanoes and Earthquakes

Selected Vocabulary and Definitions

Mantle	Under the crust is the mantle forming about half of the Earth.
Volcano	An opening or rupture in the Earth's crust through which lava, ash and gases escape
Tectonic plates	The earth's crust is made up of large areas called tectonic plates that join together.
Seismic waves	An elastic wave in the earth produced by an earthquake or other means.
Magma	Extremely hot, liquid rock.
Molten	Hot, melted rocks.
Lava	Molten, hot rock flowing from a volcano.
Epicentre	The point on the Earth's surface at the centre of an Earthquake.
Core	The core is at the centre of the Earth. There is a solid inner core and outer liquid core of molten metal.
Crater	The mouth of a volcano.
Crust	The surface layer covering our planet.
Earthquake	A violent movement of parts of the Earth's surface.

Tectonic plates

Most tectonic activity is along plate margins and the edge of continents. Some volcanoes form over hot spots in the mantle. The Ring of Fire is a region around much of the rim of the Pacific Ocean where many volcanic eruptions and earthquakes occur.



Curriculum Objectives

- Can I use and understand the geological terms such as volcanoes and earthquakes?
- What are the landscape features on the development of a locality?
- What are the similarities and differences between volcanoes in Japan and Sicily?.

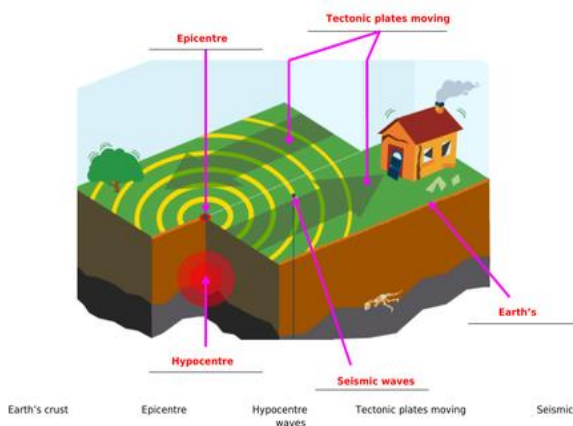
Key Questions

What is an earthquake?

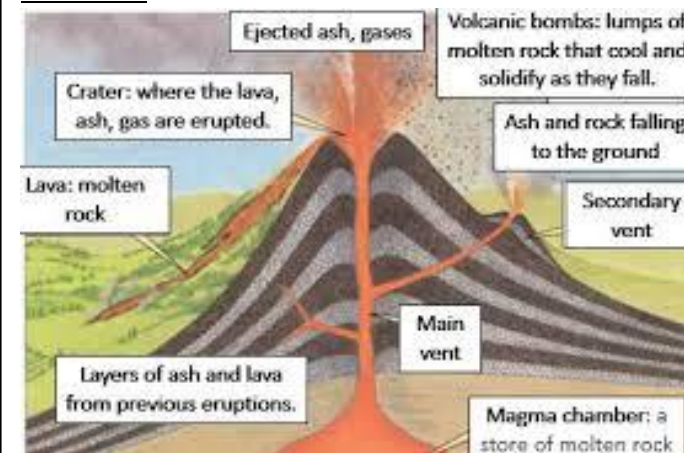
What is a volcano?

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.
- The power of an earthquake is measured using the Richter Scale.



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 10000 years but may erupt again.

Extinct volcanoes aren't expected to erupt again.

Ring of Fire- The majority of Earth's volcanoes and earthquakes take place along the Ring of Fire.



