

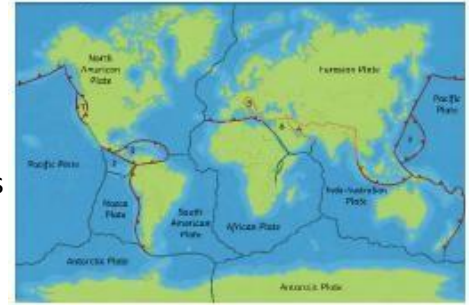
Key Question: Why do people live near volcanoes?

Word	Definition
Earth's Core	The very centre of the Earth. It is extremely hot and is made mostly of metal, such as iron and nickel.
Earth's Mantle	The thick layer of hot rock between the Earth's core and crust. The mantle slowly moves.
Earth's Crust	The thin, rocky outer layer of the Earth on which we live.
Tectonic Plates	Huge pieces of the Earth's crust that slowly move on top of the mantle
Plate Boundary	The place where two tectonic plates meet.
Volcano	An opening in the Earth's crust where melted rock, ash and gases can escape from below the surface.
Eruption	The release of lava, ash, gas and rock from a volcano.
Push and Pull Factors	Reasons why people move. Push factors make people want to leave a place, while pull factors attract people to a new place.
Geothermal Energy	Energy created using heat from inside the Earth. It can be used to generate electricity or heat buildings.
Volcanologist	A scientist who studies volcanoes and tries to understand and predict volcanic activity

Key Knowledge

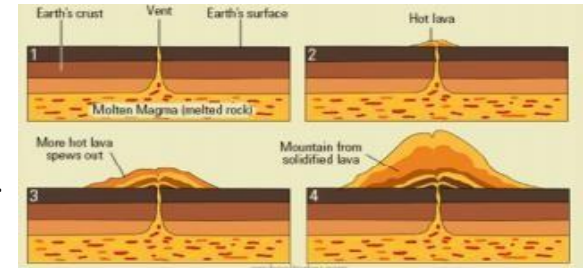
Tectonic plates

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.



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.

Interesting Facts

Scientists believe that millions of years ago there was one 'land mass', a 'super continent' called Pangea. If you cut the continents of the Earth up, they nearly fit together like a jigsaw.



Scientists believe that 80% of the Earth's volcanic eruptions happen underwater!

Year 3 learning link – when magma and lava cools, it creates igneous rock.