

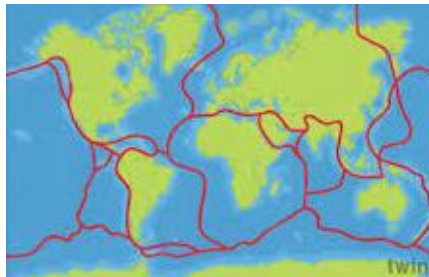
### Important facts

#### Volcanoes

- A volcano is a very deep hole in the Earth's top layer that can let out hot gases, ash and lava.
- Volcanoes have long vents that go down through the Earth's first layer, the crust, to magma between the crust and the mantle. It's so hot that rocks melt into liquid. This is called magma, which travels up through volcanoes and flows out as lava.
- A volcano can be active, erupting or dormant.
- When a volcano erupts magma comes up through the vents. Magma is called lava when it is outside the volcano.
- There are no volcanoes in the UK. The largest volcano in Europe is mount Etna in Sicily (Italy)

#### Earthquakes

- An earthquake is the shaking and vibration of the Earth's crust due to movement of the Earth's tectonic plates
- The tectonic plates have edges and sometimes the edges, which are called fault lines, can get stuck but the plates keep moving.
- Pressure slowly starts to build up where the edges are stuck and once the pressure gets strong enough the plates will suddenly move causing an earthquake.

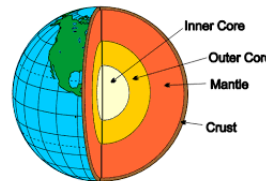


Tectonic plates across the world

### Key Vocabulary

active	An active volcano has erupted recently or is expected to erupt quite soon
core	The central part of the Earth, beneath the mantle
crust	The Earth's crust is the outer layer
dormant	Not active but capable of becoming active later on
earthquake	A shaking of the ground caused by movement of the Earth's crust
erupt	When a volcano erupts, it throws out a lot of hot melted rock called lava, as well as ash and steam
fault lines	A long crack in the surface of the earth. Earthquakes usually occur along fault lines
lava	The very hot liquid that comes out of a volcano
magma	Molten rock that is formed in very hot conditions inside the earth
mantle	The part of the earth between the crust and the core
melt	To change from a solid to a liquid state through heat or pressure
molten	Molten rock, metal or glass has been heated to a very high temperature and become hot thick liquid
tectonic plates	Any of the several segments of the Earth's crust that move
vent	The part of the volcano through which lava and gases erupt

### Layers of the Earth



The area where most volcanoes are and where most earthquakes happen is known as 'The ring of fire'

