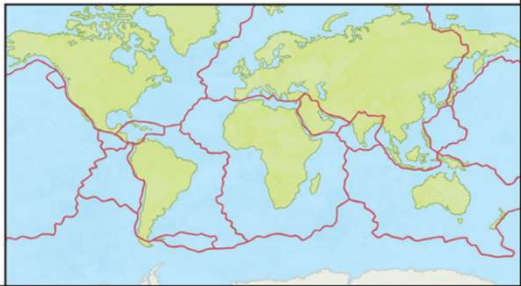


## Earthquakes

- 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.



### How do they move the plates around?



Rubbing together

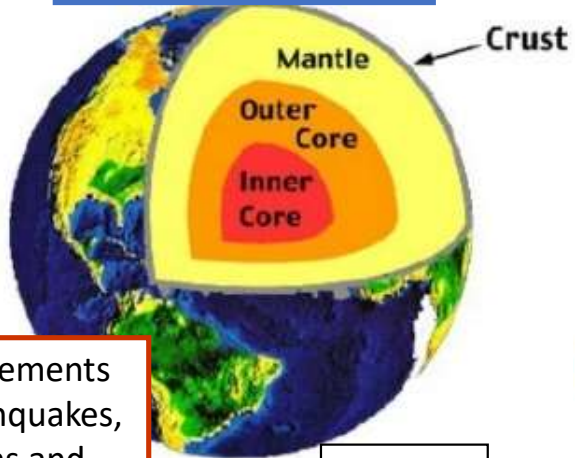
Towards each other

Away from each other

These movements cause; earthquakes, mountains and volcanoes creation.

## Year 3- Geography: Volcanoes, Mountains and Earthquakes.

### Earth's Structure



### Will all volcanoes erupt?



**active**

A volcano that has erupted in the last 10 000 years.

**dormant**

A volcano that hasn't erupted in the last 10 000 years, but may erupt again.



**extinct**

A volcano that hasn't erupted in the last 10 000 years, and isn't expected to erupt again.

### How Are Volcanoes Made?

Eruption cloud

This then affects the Earth's crust, so that magma can sometimes erupt through it.

The lava and ash that has erupted through the crust build up to form the classic volcano cone shape over time.

Crater

Lava flow

Pressure builds up inside the Earth.

Conduit/ main vent

Layers of rock from past eruptions

This process is happening all the time!

Magma Chamber

### EARTHQUAKE MAGNITUDE SCALE

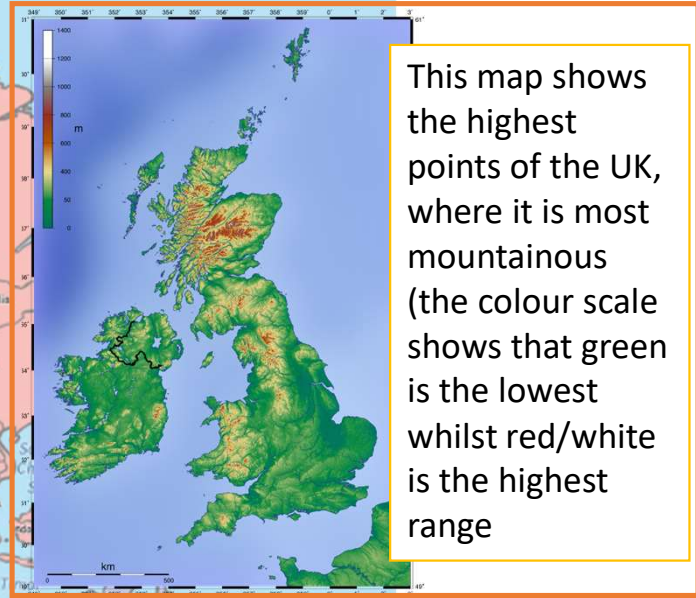
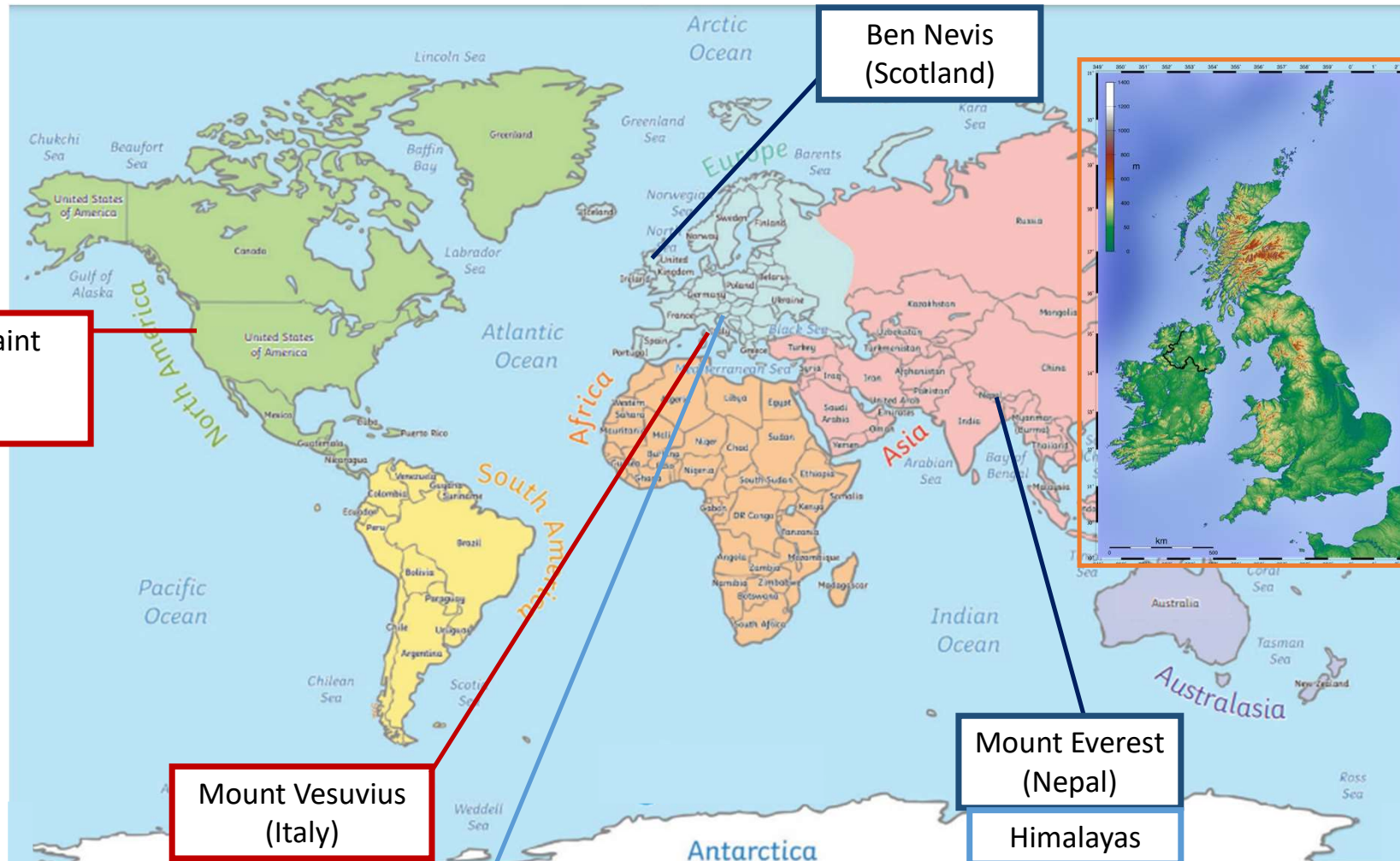


Volcanoes

Mountains

Mountain Ranges

Located on this map of the world are some famous volcanoes, mountains and mountain ranges.



This map shows the highest points of the UK, where it is most mountainous (the colour scale shows that green is the lowest whilst red/white is the highest range)

Mount Saint Helen (USA)

Mount Vesuvius (Italy)

Alps (France, Switzerland, Italy and more)

Mount Everest (Nepal)

Himalayas

Ben Nevis (Scotland)