



Y9 Golden Thread –
How does geography impact people the environment and the economy?

Which impacts have you studied in this unit?

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How have you demonstrated the skill to analyse?

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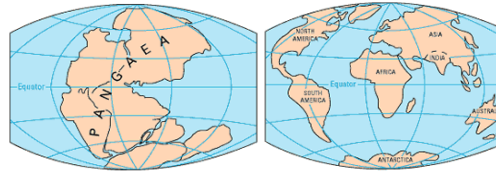
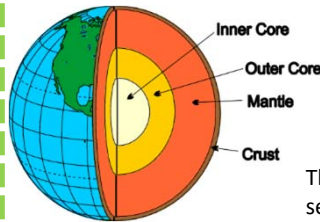
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KS3 Geography – Y9: Restless Earth Knowledge Organiser

Structure of the Earth

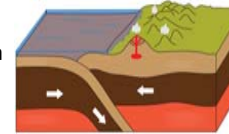


The Earth's crust is fractured and broken up into large sections called tectonic plates. These move around causing hazards. These movements have also caused the Earth's continents to move over time in a process called continental drift. **Continental drift** is a theory that the Earth's continents were once joined together and have gradually moved away from each other across the Earth's surface through geological time.

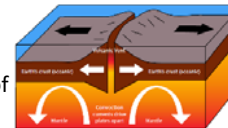
Tectonic plates are massive slabs of solid rock made up of Earth's lithosphere (crust and upper mantle).

Tectonic Plate Margins

When tectonic plates are being pushed towards each other, one of the plates sinks and melts, creating a store of magma that can be erupted out of a volcano. This process can also create tsunamis. This type of plate margin is known as a destructive plate margin.



When tectonic plates move away from each other, it leaves a gap in the crust, which allows magma to escape onto the surface as lava. This creates volcanic eruptions. This type of plate margin is known as a constructive plate margin.

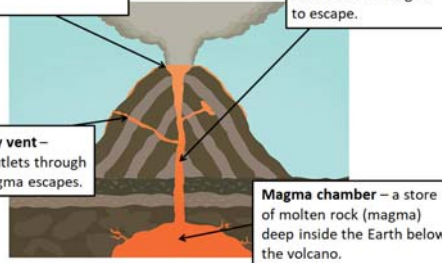


Crater – a large bowl-shaped hollow at the top of the volcano.

Main Vent – the main outlet for the magma to escape.

Secondary vent – smaller outlets through which magma escapes.

Magma chamber – a store of molten rock (magma) deep inside the Earth below the volcano.



The E15 volcanic eruption, Iceland

The eruption started on 20 March 2010, at first there was not much explosive activity. A second eruption then began on 14 April. Areas were flooded because of the glacier melt water which lay above the volcano, over 700 people were ordered to evacuate.

Travel was severely disrupted as many flights were cancelled between 14 and 21 April 2010 - Airlines lost a combined £130 million per day in lost revenues. People were not able to get to work because they were stranded abroad, leading to many businesses worldwide losing money.



Here are some key words from this topic. **Can you add anymore?**

tectonic (adj)	Relating to the structure of the Earth's crust and the processes taking place due to its movement.
hazard (n)	A situation that poses a level of danger or risk. Something that can cause harm, damage, injury or loss.
convection current (n)	A movement within the Earth's mantle caused by the heat of the core.
plate margin (n)	The region where two or more tectonic plates meet. It is a zone of intense seismic activity.
magnitude (n)	The great size or extent of something.
effect (n/v)	The impact an event has on people and the area.
response (n)	A reaction to an event.
risk (n)	a situation involving exposure to danger.

CEIAG Link: For this topic we can make links to a variety of professions:

- Volcanologist
- Seismologist
- Architect
- Construction worker
- Emergency planner
- Emergency management
- Aid worker
- Paramedic
- Healthcare professional



If you are interested in the above careers, don't forget you can do some research and speak to Mrs Ackroyd.