Tectonic Plates	The crust is split into several pieces (like a cracked egg shell). These pieces of rock are called tectonic plates. They float on the mantle.		
Oceanic Crust	Curst found under the oceans (thin, young, more dense)		
Continental Crust	Crust found under land (thick, old, less dense)		
Continental Drift	Theory that said the earth's continents are very slowly moving in different directions.	•	
Subducted	Goes underneath		
Magma	Molten(melted) rock		
Focus	The point where the pressure is released		
Fault line	The line between the two plates	c	
Earthquake		1	

A sudden movement of tectonic plates due to a release of energy of pressure. It is followed by a series of aftershocks.

As tectonic plates suddenly move, they send out **SHOCK WAVES**

The point of movement is called the **FOCUS**. The point directly above the focus is called the **EPICENTRE**

The closer you are to the focus and epicentre, the stronger the earthquake will be.



CONVECTION CURRENTS

- The mantle is made up of semi molten rock.
- Convection currents are circular currents in the mantle. The magma is heated up, it rises. Then cools as it hits the surface. It moves in a circular motion and drags the tectonic plate along.





The Geography Knowledge – Tectonic Hazards

DESTRUCTIVE PLATE BOUNDARY

Two plates move towards each other. One plate is **subducted** beneath the other.

- As they move past each other, pressure builds up and up and up. This pressure is suddenly released = earthquake.
- As they move past each other friction and pressure cause the surrounding plate to melt = magma. This rises through the crust = volcano.

CONSTRUCTIVE PLATE BOUNDARY

Two plates move away from each other due to convection currents in the mantle.

- This leaves a gap. Magma rises to fill this gap = volcanoes. This usually occurs under oceans. The magma creates new land = sea floor spreading
- As a magma rises, small earthquakes occur.

CONSERVATIVE PLATE BOUNDARY

Two plates move past each other, either in the same direction at different speeds or in opposite directions.

• As the two plates slide past each other, pressure builds up and up and up. This is suddenly released = earthquakes

Tsunami's occur when a large piece of Earth's crust can be thrust upward or slip from side to side. The movement of a large chunk of Earth displaces the water above it, meaning it takes up the space where the water used to be. The water has no where to go but up and out.

	HIC	LIC	
Quality of infrastructure	The buildings, roads and bridges in HICs are much stronger. They also have earthquake proof buildings that do not fall down.	The buildings are built out of poor quality materials = fall down during earthquake.	
Use of monitoring and predicting equipment	HICs use equipment to monitor the ground to predict when the earthquake will occur. They also have plans to help them prepare for when the earthquake occurs	Not all LICs can afford monitoring equipment to predict when the earthquake will occur or have sufficient plans to help them prepare for when it does.	
Communication systems	HICs have good communication systems to help communicate with the population what to do following the earthquake.	LICs do not have good communication systems to communicate with the population what to do following the earthquake = do not know what to do.	
GDP: wealth of country	Countries have more money to spend planning, predicting and protecting themselves from the earthquake, they can also rebuild the country quicker.	LICs, do not have the money to rebuild after a natural disaster. They also can't spend as much money on search and rescue or clean up operations.	



- km. Pyroclastic flows travelled 3 km down the heavily
- populated mountain sides.

Volcanic ash fell up to 30 km away and travelled 6 km into the sky

- 353 people were killed
- 577 people were injured