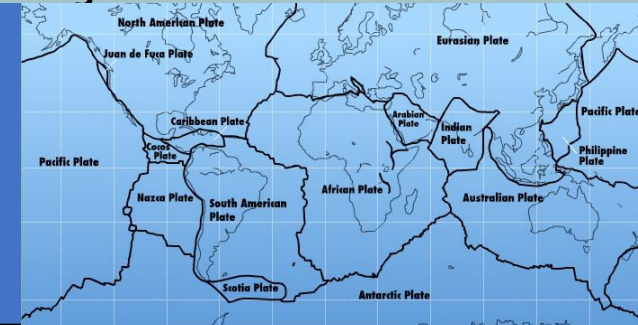


Year 6 Knowledge Mat - Tectonic Hazards

Expert Words

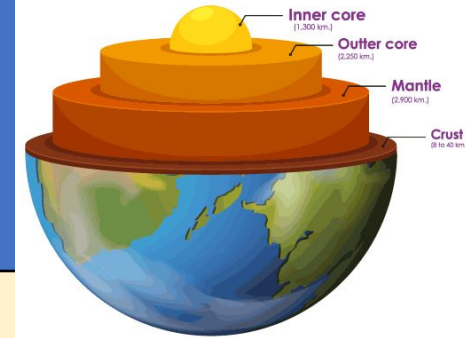
Crust	The outer layer of the Earth - a thin layer of solid rock.
Tectonic plate	An enormous slab of rock/a section of the Earth's crust.
Plate boundary	Where two tectonic plates meet.
Mantle	A thick layer of hot, molten rock found beneath the Earth's crust.
Magma	The name given to hot, molten rock when it is inside the Earth's mantle.
Lava	The name given to hot, molten rock when it is above the Earth's crust.
Seismic waves	The energy released from an earthquake and which cause the ground (crust) to shake.
Seismometer	The instrument used to measure earthquake magnitude (strength).
Richter scale	The scale used to record earthquake magnitude (strength).
Geothermal energy	Energy (heat) from the Earth's mantle. It can be used to generate electricity and heating to warm homes.
Mitigation strategy	A way to reduce the impact of a disaster (save lives and prevent damage).



Sticky Knowledge

The Earth is made up of 4 layers: the crust, mantle, inner core and outer core.
The tectonic plates are constantly moving (about the speed that your fingernails grow).
Most of the world's earthquakes and volcanic eruptions occur at plate boundaries.
Earthquakes occur at plate boundaries when a sudden movement of the Earth's crust releases a huge amount of energy.
A tsunami is a series of giant waves. They are usually caused by earthquakes under the sea, but can also be caused by volcanic eruptions and landslides.
A volcano is an opening in the Earth's crust through which volcanic materials (lava, ash, gas, etc.) can escape from the mantle. Volcanoes can be classified in three ways: active, dormant and extinct.
Living near a plate boundary has many advantages, such as: access to geothermal energy, fertile soil (good for farming), and access to minerals (such as copper).

Layers of the Earth



Social impact - How something affects people.

Economic impact - How something affects the economy (the wealth of an area).

Environmental impact - How something affects the environment.