

# Year 3 Active Planet Knowledge Organiser

## Key Vocabulary

**Core-** The core is at the centre of the Earth. There is a Solid inner core and outer liquid core of molten metal.

**Crater-** The mouth of a volcano

**Crust-** The surface layer covering our planet.

**Earthquake** – A violent movement of parts of the Earth’s surface.

**Epicentre-** The point on the Earth’s surface at the centre Of an Earthquake.

**Erupt-** To suddenly burst out causing lava to explode out of the earth’s surface.

**Lava** - Molten, hot rock flowing from a volcano.

**Molten-** Hot, melted rocks.

**Magma** – Extremely hot, liquid rock.

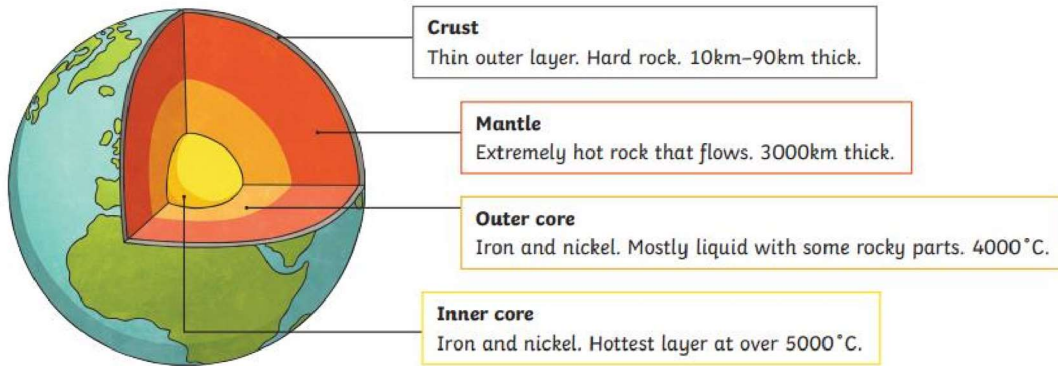
**Mantle-** Under the crust is the mantle.

**Seismic waves** – An elastic wave in the earth.

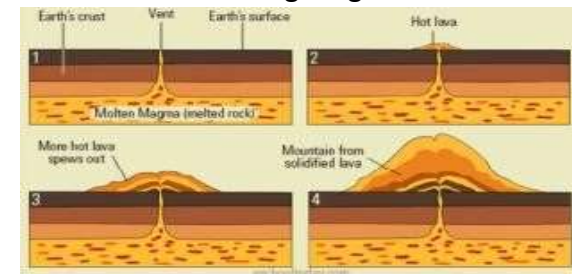
**Tectonic plates-**The Earth’s crust is made up of large areas that join together.

**Volcano** - An opening in the Earth’s crust through Which lave, ash and gases escape.

## Layers of the Earth



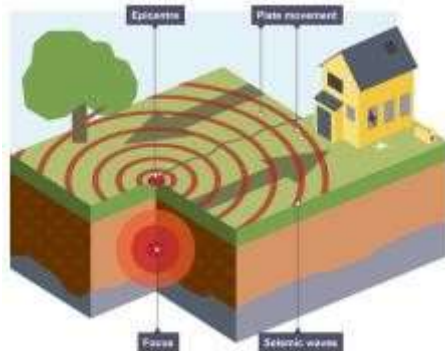
**Volcanoes** Volcanoes are made when pressure builds up inside the earth. This affects the earth’s crust causing magma to sometimes erupt through it.



- Active volcanoes have erupted in the last 10 000 years.
- Dormant volcanoes haven't erupted in the last 10000 years but may erupt again.
- Extinct volcanoes aren't expected to erupt again.

## Earthquakes

- Earthquakes are caused when the Earth’s tectonic plates suddenly move.
- Most earthquakes occur near the tectonic plate boundaries.
- The power of an earthquake is measured using the Richter Scale.



## Tectonic plates

Most tectonic activity is along plate margins and the edge of continents. Some volcanoes form over hot spots in the mantle. The **Ring of Fire** is a region around much of the rim of the Pacific Ocean where many volcanic eruptions and earthquakes occur.



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