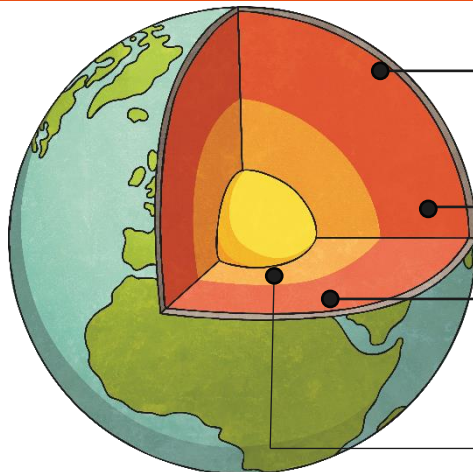


**Key Vocabulary**

<b>volcano</b>	An opening or rupture in the Earth's crust through which lava, ash and gases escape.
<b>erupt</b>	To suddenly burst out causing lava to explode out of the earth's surface.
<b>lava</b>	Molten, hot rock flowing from a volcano.
<b>magma</b>	Extremely hot, liquid rock.
<b>tectonic plates</b>	The earth's crust is made up of large areas called <b>tectonic plates</b> that join together.

<b>crater</b>	The mouth of a volcano.
<b>Earthquake</b>	A violent movement of parts of the Earth's surface
<b>epicentre</b>	The point on the Earth's surface at the centre of an Earthquake.

**Layers of Earth**



**Crust**

Thin outer layer. Hard rock. 10km-90km thick.

**Mantle**

Extremely hot rock that flows. 3000km thick.

**Outer core**

Iron and nickel. Mostly liquid with some rocky parts. 4000°C.

**Inner core**

Iron and nickel. Hottest layer at over 5000°C.

## 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 10 000 years but may erupt again.
- Extinct volcanoes aren't expected to **erupt** again.



## Volcanoes

### Types of volcanoes:

**Active** - eruptions can be anytime and often.

**Dormant** - has been a while since it has erupted, but could at any time.

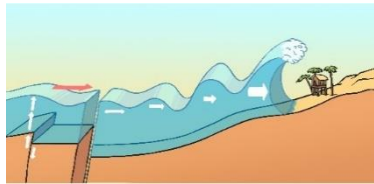
**Extinct** - meaning it hasn't erupted in a very long time so it probably won't ever again.

### Famous Volcanoes:

- Mount Vesuvius, Italy.
- Krakatoa, Indonesia.
- Mauna Loa, Hawaii.
- Mount St. Helens, USA.
- Eyjafjallajökull, Iceland

## Tsunamis

- A tsunami is a giant wave caused by a huge earthquake under the ocean.
- The earthquake causes a large amount of water to be displaced very quickly causing a series of waves.
- As the waves travel through shallower water near land, they get bigger and bigger. The wave crashes onto the land causing devastation to buildings and sometimes even lives.



## 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.

