

# Volcanoes and Earthquakes – Knowledge Organiser

## Where in the World?

### 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.

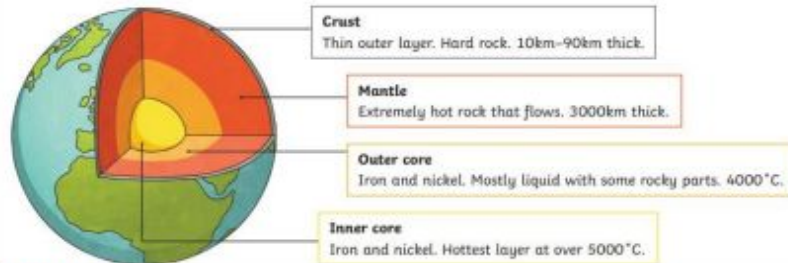
**Mantle** - Under the crust is the mantle forming about half of the Earth.

**Seismic waves** - An elastic wave in the earth produced by an earthquake or other means.

**Tectonic plates** - The earth's crust is made up of large areas called tectonic plates that join together.

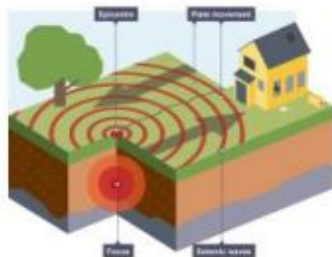
**Volcano** - An opening or rupture in the Earth's crust through which lava, ash and gases escape.

### Layers of Earth



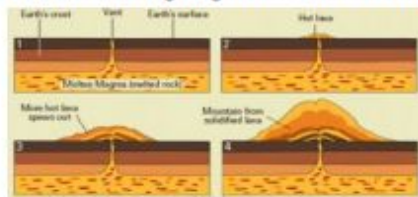
### Earthquakes

- 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.
- The power of an earthquake is measured using the Richter Scale.



### 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.

### 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.



Unlock even more knowledge by visiting:

<https://www.natgeokids.com/uk/discover/geography/physical-geography/volcano-facts/>  
<https://www.funkidslive.com/learn/top-10-facts/top-10-facts-about-earthquakes/>

Unlock even more knowledge by finding out the top ten largest ever earthquakes and volcanoes.

Key Vocabulary	
<b>biomes</b>	A large geographical area which is home to certain plants and animals, specially adapted to suit the environment.
<b>climate</b>	The usual or average <b>weather</b> conditions over a long period of time.
<b>continent</b>	A large landmass made up of many <b>countries</b> .
<b>country</b>	An area that is controlled by its own government.
<b>equator</b>	An imaginary line around the globe at <b>latitude</b> 0° north dividing the earth into northern and southern hemispheres.
<b>flora/fauna</b>	Plant and animal life.
<b>latitude</b>	Imaginary parallel lines which circle the globe from east to west.
<b>longitude</b>	Imaginary lines which run north to south across the globe from pole to pole.
<b>weather</b>	The specific atmospheric conditions on a given day including temperature and rainfall.

The Americas
<ul style="list-style-type: none"> <li>The Americas are two separate <b>continents</b> consisting of North America and South America.</li> <li>North America contains 23 different countries.</li> <li>The Americas cover a huge area of the globe, extending over several lines of <b>latitude</b> and <b>longitude</b>.</li> <li>The characteristics of different countries and regions vary significantly, including <b>weather</b>, land use and <b>flora</b> and <b>fauna</b>.</li> </ul>



How Can You Compare Different Places?	
<p><b>Physical Geography</b></p> <p>The natural features of a place or environment.</p> <ul style="list-style-type: none"> <li>oceans and coastlines</li> <li>rivers and lakes</li> <li>mountains and volcanoes</li> <li><b>flora</b> and <b>fauna</b></li> <li>land-form</li> </ul>	<p><b>Human Geography</b></p> <p>Features of an environment that have been shaped by people.</p> <ul style="list-style-type: none"> <li><b>country</b>/region boundaries</li> <li>buildings, roads and land use</li> <li>changes to river courses</li> <li>language/signs</li> <li>religion, government, art and music</li> </ul>