

What should I already know?

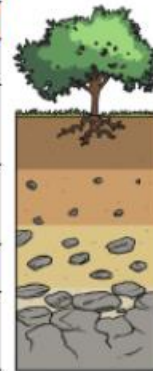
- The four countries of the United Kingdom and their capital cities.
- The seven continents and five oceans of the world.
- The location of some countries, including the UK and Spain.

What will I know by the end of the unit?

- Know what causes an earthquake
- Label the different parts of a volcano
- Know what a Tsunami is
- Know and locate places where earthquakes happen

Key Vocabulary

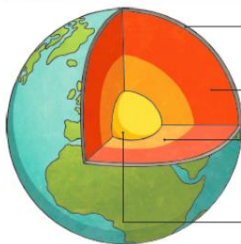
| | |
|---------------------------|---|
| cumulonimbus cloud | Large thunderstorm clouds. |
| erupt | To suddenly burst out causing lava to explode out of the earth's surface. |
| fossils | The remains of plants or animals that lived a long time ago which can be found deep in the earth. |
| magma | Extremely hot, liquid rock. |
| tectonic plates | The earth's crust is made up of large areas called tectonic plates that join together. |



Layers of Soil

| | |
|----------------|---|
| humus | Rotting dead leaves and animals. |
| topsoil | Plant's roots grow here. Very few rocks. |
| subsoil | Rocks and stones. Full of nutrients. Tree roots may reach. Fossils . |
| bedrock | A mass of rocks. Fossils . |

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. |

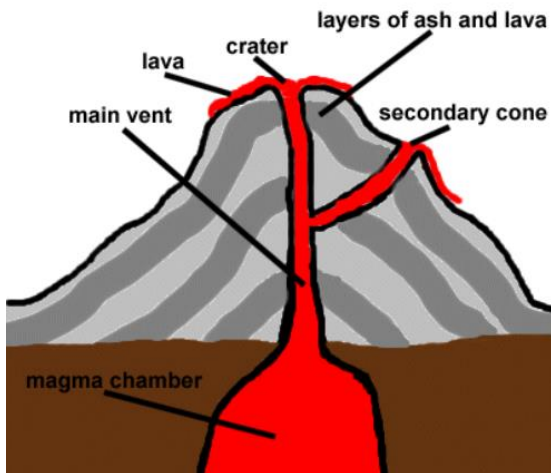
Earthquakes

- 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.



Volcanoes

A simple cross section of a volcano



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.

