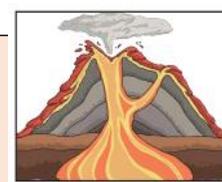
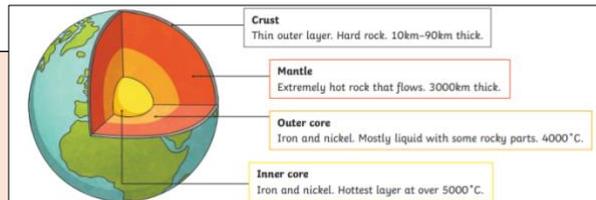


# Explore Enquiry – Can we always control change in the world?

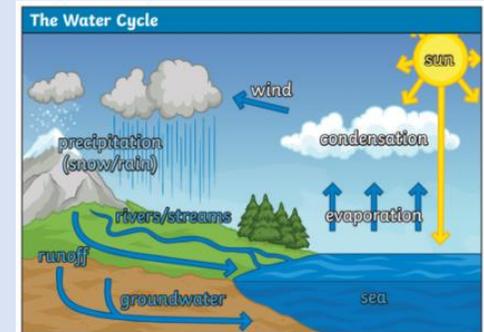
## Sticky Knowledge

- Volcanoes are made when pressure builds up inside the earth. This affects the earth's crust causing magma to sometimes erupt through it.
- Extinct volcanoes aren't expected to erupt again.
- 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.
- A tsunami is a giant wave caused by a huge earthquake under the ocean.
- 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 are caused when the earth's tectonic plates suddenly move.
- Most earthquakes occur near the tectonic plate boundaries.
- Clouds form when warm, moist air is cooled. When it is cooled, it condenses into tiny water droplets which appear as clouds.
- Heat from the sun evaporates water, which rises, condenses in the cool air and then falls back down to earth.

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. <b>Fossils.</b>
bedrock	A mass of rocks. <b>Fossils.</b>



## The Water Cycle



## Crucial Connections

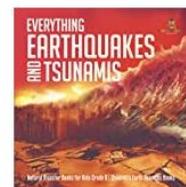
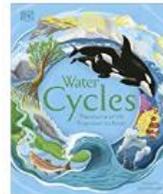
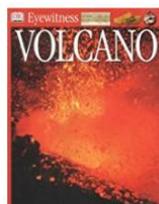
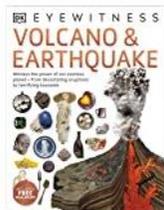
<http://www.primaryhomeworkhelp.co.uk/mountains/volcanoes.htm>

<http://www.primaryhomeworkhelp.co.uk/rivers.html>

<https://www.bbc.co.uk/bitesize/topics/z849q6f>

<https://kids.nationalgeographic.com/>

## Reading Recommendations



Values

Offering and Integrity

## Aspirations:

Academic librarian, teacher, university lecturer, journalist, broadcaster, travel agent, geologist, landscape architect, conservation officer, explorer

## Vital Vocabulary

Crust	Thin outer layer of the earth which is made of hard rock.
Mantle	Extremely hot rock that flows underneath the earth's crust.
Outer core	Made of iron and nickel and is between the earth's mantle and inner core. Mostly liquid with some rocky parts.
Inner Core	Made of iron and nickel and is the centre of the earth. Hottest layer at over 5000°C which is as hot as the surface of the sun!
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 may be found here.
Bedrock	A mass of rocks. Fossils may be found here.
Erupt	Inner core Iron and nickel. Hottest layer at over 5000°C.
Magma	Extremely hot, liquid rock.
Tectonic Plates	The earth's crust is made up of large areas called tectonic plates that join together.
Evaporation	Evaporation occurs when a liquid changes into a gas or water vapour.
Condensation	Condensation is when a gas cools and changes to a liquid.
Melting	This is when a solid is heated and changes to a liquid.
Freezing	Freezing is the process of a liquid cooling and changing to a solid.
Water Vapour	Water that is in the form of a gas.
Pollution	Anything that is introduced into a habitat which has a harmful effect on plants and animals living there.