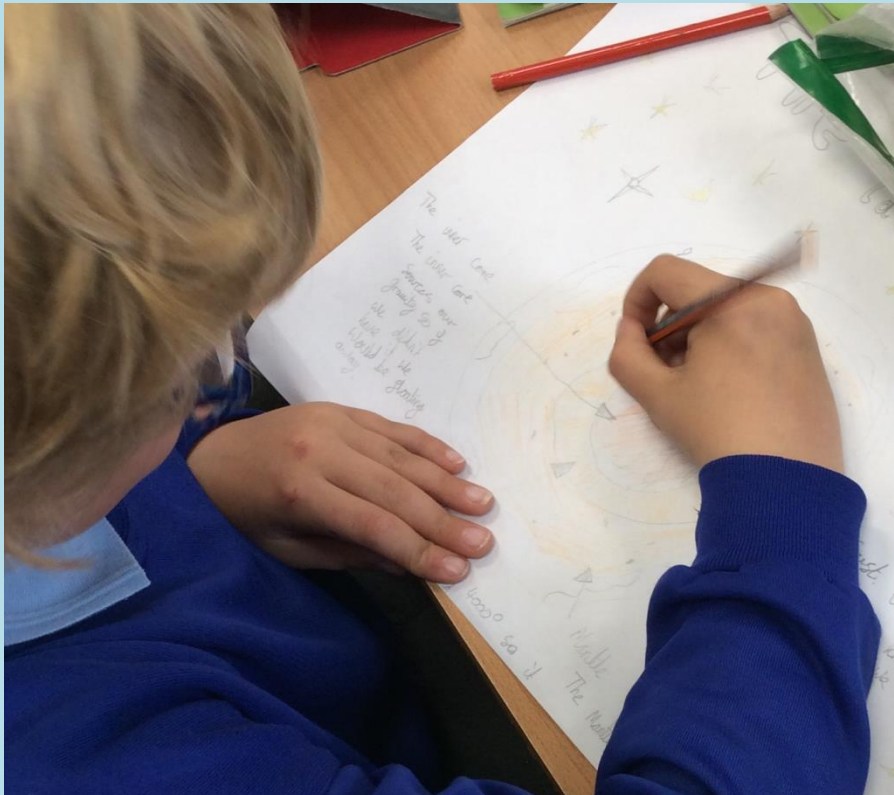


Class Tamar

Geography

Extreme Earth

We researched what is under the Earth's surface and presented our findings as a poster.

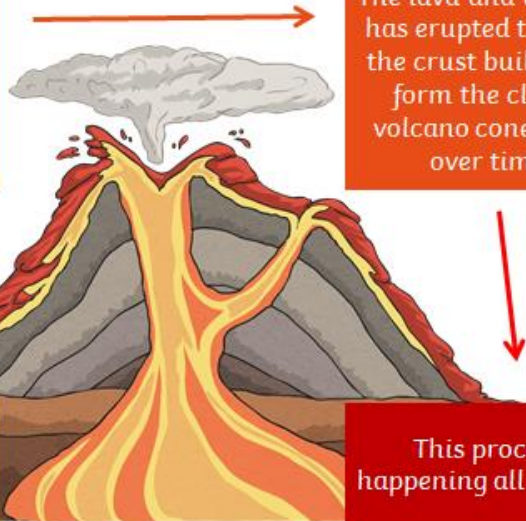


We learnt about how volcanoes are formed and drew our own diagrams.

How Are Volcanoes Made?

This then affects the Earth's crust, so that magma can sometimes erupt through it.

Pressure builds up inside the Earth.

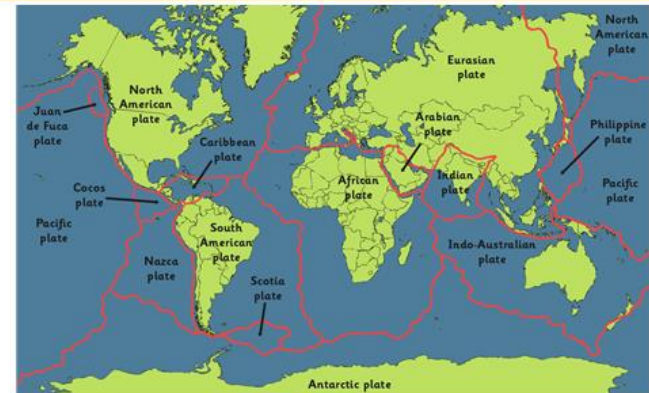


The lava and ash that has erupted through the crust build up to form the classic volcano cone shape over time.

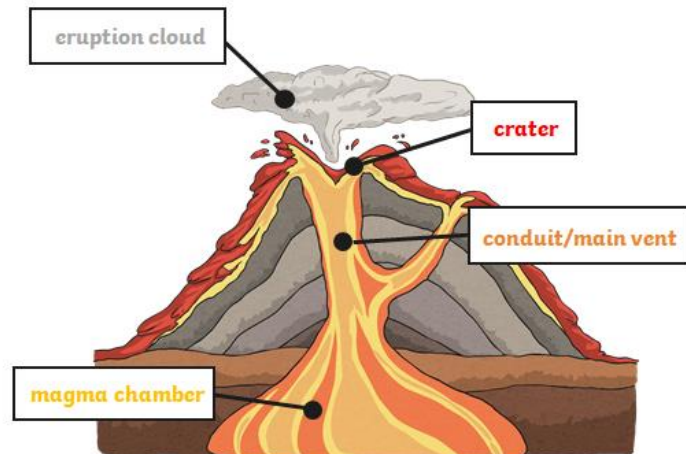
This process is happening all the time!

Tectonic Plates

The Earth's crust isn't one solid layer. It is broken up into huge areas called tectonic plates that float on top of the mantle.



What's It All Called?



Over the next two sessions we learnt about what causes a tsunami and earthquakes and how this affects the lives of people.

Where Do Earthquakes Occur?

Look at this map of the world. Toggle the buttons to show tectonic plate boundaries and earthquake hotspots.

What do you notice about where earthquakes happen?

Compare the earthquake map to the tectonic plates map. Are there any similarities?

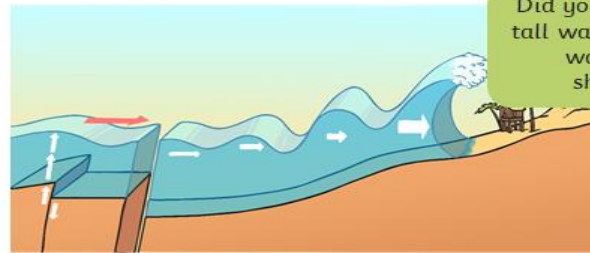


hide tectonic
plate boundaries

hide earthquake
hotspots

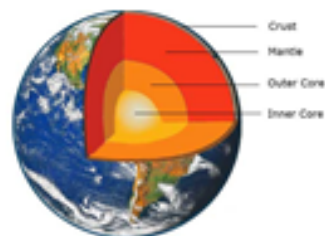
What Causes a Tsunami?

- 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.
- A series of waves travels through the deep water.
- As the waves travel through shallower water near the land, they get bigger.



Did you know... before the tall wave hits the land, the water level at the shore will drop?





Forever Facts

Understand that the earth is made up of layers (Crust, mantle, outer core, inner core)

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

A tornado is a swirling funnel of air that forms when warm air rises from near the ground into big cumulonimbus clouds.

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.

Earthquakes are caused when the earth's tectonic plates suddenly move. Most earthquakes occur near the tectonic plate boundaries.

Skills

To ask and answer geographical questions about the physical and human characteristics of a location.

To describe key aspects of physical geography, including volcanoes and earthquakes.

Exciting Books



Our Endpoint

To describe and understand key aspects of physical geography.

Subject Specific 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.

SMSC: *Spiritual* – a fascination of the world around them is developed. *Moral* – opportunities to look at the situations from different points of view. *Social* – collaborating as a group and this collaborative learning continues throughout. *Cultural* – empathy work linked to natural disasters.