

Why is the Earth Dangerous?

Geography

Human & Physical

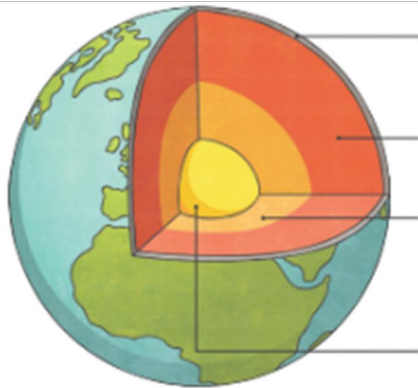
Location

Rocket Words	
Word	Meaning
umbus	Large thunderstorm clouds.
	To suddenly burst out causing lava to explode out of the earth's surface.
	Any weather that falls outside of normal patterns. Extreme weather can cause natural disasters.
	The remains of plants or animals that lived a long time ago which can be found deep in the earth.
	Extremely hot, liquid rock.
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. Very few nutrients. Tree roots may reach fossils .
bedrock	A mass of rocks. Fossils .

Earth



Crust: thin outer layer. Hard rock. 10km - 90km thick

Mantle: extremely hot rock that flows. 300km 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.

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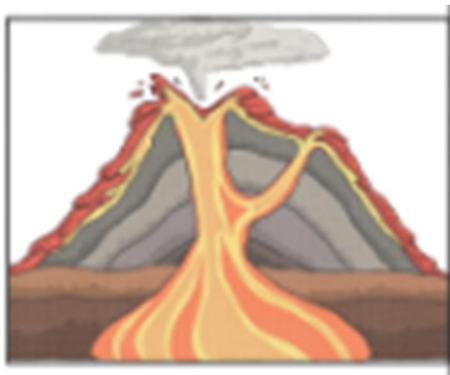
Location

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

Some volcanoes have **erupted** in the last 10 000 years.

Some volcanoes haven't **erupted** in the last 10 000 years.

Some volcanoes aren't expected to **erupt** again.



Tornadoes

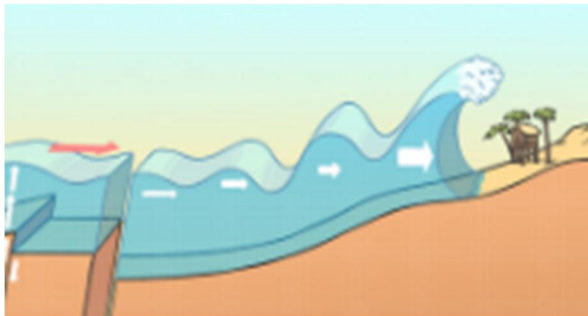
- A tornado is a swirling funnel of air that forms when warm air from near the ground into big **cumulonimbus clouds**.
- These can be thunder and lightning at the same time.
- You can see tornadoes due to the dust and water droplets caught in the clouds.
- Storm-chasers include scientists who travel towards the storms to film them and collect data about them.
- Most tornadoes happen in Tornado Alley in America - more than 500 each year.
- Tornadoes can happen in the UK but only around 30 per year.



A tsunami is a giant wave caused by a huge earthquake under the ocean.

An earthquake causes a large amount of water to be displaced very suddenly causing a series of waves.

As the waves travel through shallow water near land, they get bigger and bigger. The waves crash onto the land causing destruction to buildings and sometimes even lives.



Earthquakes

- Earthquakes are formed when the earth's **tectonic plates** move.
- Most earthquakes occur near the **tectonic plate** boundaries.
- Earthquakes can cause lots of damage to roads, buildings and property.



What we know.	What we would like to know.	What we have found out.