

St White's Primary School - Geography

Crust

Mantle

Phase: UKS2

Topic: Earthquakes and Volcanoes

crust

mantle

core

Tectonic

continental

Richter scale

drift

friction

tsunami

plates

on.

the mantle

of solid rock.

volcanic action.

each other.

The inner layer of the Earth.



Technical vocabulary

the outer layer of Earth. It is about 18 miles thick. It is the part we live

Underneath the plates is thick, soft, hot flowing rock (magma) called

Earth's outer layer is made up of large, moving pieces called plates.

Convection Currents in the mantle mean that the crust moves.

which lava and other igneous rock is formed on cooling.

All of Earth's land and water sit on these plates. The plates are made

Hot fluid or semi-fluid material below or within the earth's crust from

An opening in the Earth's crust from which lava, ash, and hot gases

flow or are ejected during an eruption. Usually a cone shaped

A sudden violent shaking of the ground, typically causing great

destruction, as a result of movements within the earth's crust or

the resistance created when one surface rubs against another.

Series of waves generated from an underwater earthquake

The hypothesis that the continents have moved over time relative to

mountain; formed by a layers of built up magma over time.

A fault it a crack or fracture in the Earth's surface

A scale used to measure the size of an earthquake

Extinct, meaning it hasn't erupted in a very long, long time so it probably won't ever again.

What should I already know?

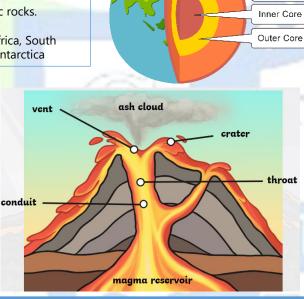
- Italy is in Europe. Pompeii is a Roman city buried under ash from a volcano.
- There are igneous, sedimentary and metamorphic rocks.
- There is physical and human geography
- The names/locations of the seven continents Africa, South America, North America, Europe, Asia, Oceania, Antarctica

Earthquakes

- An earthquake is a sudden violent shaking of the ground, typically causing great destruction.
- Earthquakes usually occur on the edges of large sections of the Earth's crust called tectonic plates. They happen when two plates suddenly slip and a fault occurs. A fault it a crack or fracture in the Earth's surface.
- Earthquakes can cause huge waves in the ocean called tsunamis. Scientists use seismic waves to measure how big an earthquake is.
- They use a device called a seismograph to measure the size of the waves/magnitude. The magnitude is measured using the Richter Scale.
- The largest earthquake ever recorded in the world was in Chile in 1960. It measured a 9.6 on the **Richter Scale**

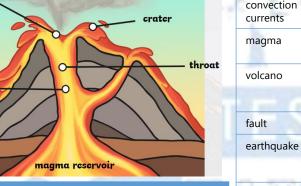
PLATE MOVEMENT

Conservative



Eyjafjallajokull is a volcano located in Iceland, which erupted several times in 2010. The ash cloud it created caused flights to be cancelled around Europe for materials. Local water supplies were contaminated and flooding was caused as

	the surrounding glacier melted.				
	Mauna Loa in Hawaii is the	9	Tectonic plates		Ring of Fire
	largest active volcano.	Alfred Wegener "fit" together. T and fossil record me to believe th	e 1-10cm each year. - These continents to hey also have similar ds. These two pieces hat there was once a rECTONIC THEORY.	rock patterns of evidence led single land	The Ring of Fire is a 25,000 mile line of volcanoes, tremors and earthquakes. The Ring of Fire contains 75% of the world's volcanoes. The Ring of Fire contains 90% of the world's earthquakes. The Ring of Fire is around the edge of the Pacific Ocean. The Mariana Trench is the deepest known trench in the ocean. Challenger Deep is the deepest known part of the ocean.
	Constructive	Destructive	Conservative	6	Types of volcanoes
	Small earthquakes and shield volcanoes	Big earthquakes and big volcanoes	Big earthquakes		- eruptions can be anytime and often. nt - has been a while since it has erupted, but could at anytime.



Recent Volcano disruption

39 days. This led to: events being postponed, issues with importing food and the currounding glacier melted