

bedrock

crust

earthquake

epicentre

lava

magma

Richter scale



Year 4 - Unit 2 A En

Vocabulary	Dear Parer
The solid rock that lies beneath the loose surface of the Earth.	Our next Please help
The outer layer of the Earth (it is about 35km thick).	key words
An earthquake is the shaking of the surface of the Earth, resulting from the sudden release of energy under- ground that creates seismic waves.	There are can comple they have
A point, directly above the true centre of an earthquake, from which shock waves spread out.	Thank you
The molten, fluid rock that comes from a volcano. This can be $800oC$ to $1,200\circ C$	Kind regard Year 4 Tea
The molten material beneath or within the earth's crust.	
A unit of measurement that measures the magnitude (strength) of earthquakes on a scale of 1-10.10 is the strongest.	Volcanoes often or h a long time have not e

stronges seismology The study of earthquakes. A piece of equipment that measures the strength of seismometer earthquakes by recording vibrations in the Earth's crust A sharp change of pressure travelling through the earth or Shock wave the air caused by explosions, earthquakes or eruptions tectonic The dozen or so plates that make up the surface of the plates Earth. A series of waves caused by the movement of a large amount of water, generally in an ocean, sea or a very large lake. These tsunami are usually caused by underwater earthquakes. The sudden occurrence of a violent discharge of steam and volcanic volcanic material (including lava) from a volcano. A stream of eruption gas and ash is violently ejected to a height of several miles.

nts,

Humanities topic is a Geography unit called 'Extreme Earth'. p your children to prepare for this topic by learning some of the and the facts on this sheet.

some homework activities on the back of this sheet. Your child ete these at any time. Your child's teacher would love to see what created.

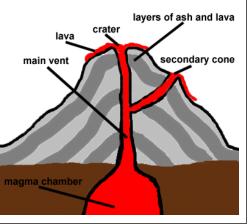
for your support, rds, achers



s are openings in the Earth's surface. Active volcanoes erupt have erupted recently. Dormant volcanoes have not erupted for ne, but can still erupt. Extinct volcanoes can no longer erupt and erupted for thousands of years.

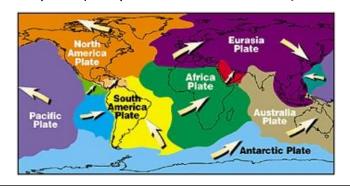
Most volcances are located near to the edges of tectonic plates. 75% of the world's volcanos are located around the Pacific Plate (the Pacific Ring of Fire). 90% of the world's earthquakes also happen here.

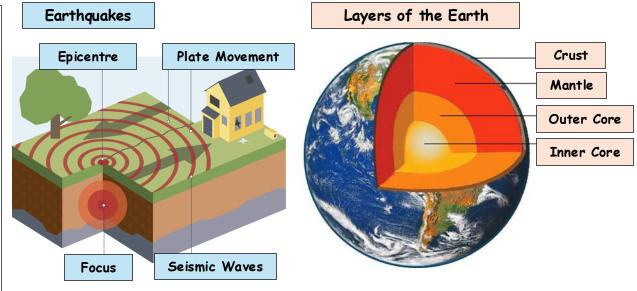
Mount Vesuvius AD79 When Mount Vesuvius (in Italy) erupted in AD79, it destroyed the Roman towns of Pompeii and Herculaneum. This eruption killed between 10,000 and 16,000 Romans.



The Earth's surface is moving in different directions. See the map below. We are located on a **tectonic plate** called the Eurasia plate. The **tectonic plates** move between 2-5cm per year. That's about the same speed at which your fingernails grow!

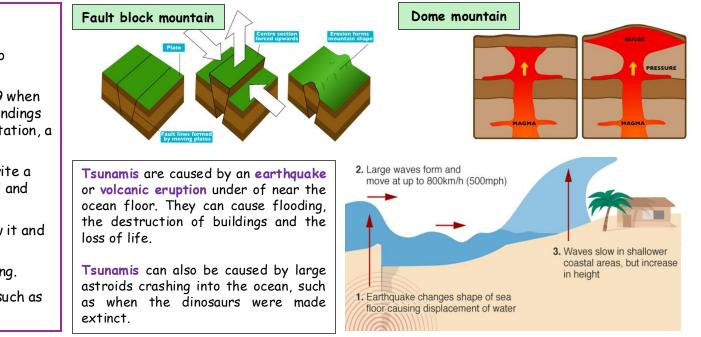
Occasionally tectonic plates, as they meet, can get stuck. The pressure builds up until they move suddenly and quickly. This is called an earthquake.





How mountains are formed

There are two main ways - Fault block mountains and dome mountains.



<u>Homework Ideas:</u>

- Make a working model of an erupting Volcano (research for how to do this online).
- Research the events that happened in AD79 when Mount Vesuvius erupted and present your findings to the class - a poster, a PowerPoint presentation, a model etc.
- Imagine that you were in an earthquake. Write a newspaper report describing what happened and how people felt.
- Research about the parts of a volcano. Draw it and label its features.
- Draw and paint a picture of a volcano erupting.
- Create a fact poster for a famous volcano, such as Mauna Loa in Hawaii.