











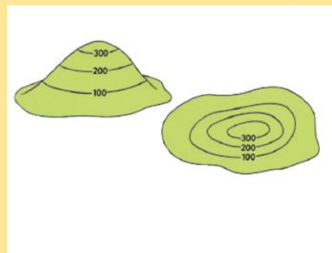
Extreme earth!

What causes mountains to form, volcanoes to erupt and earthquakes to happen?

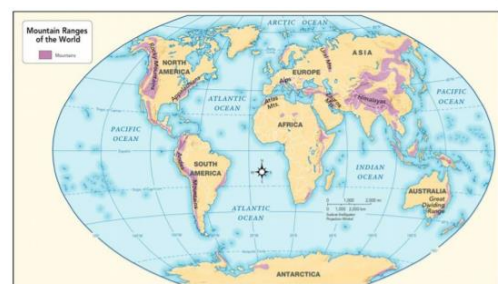
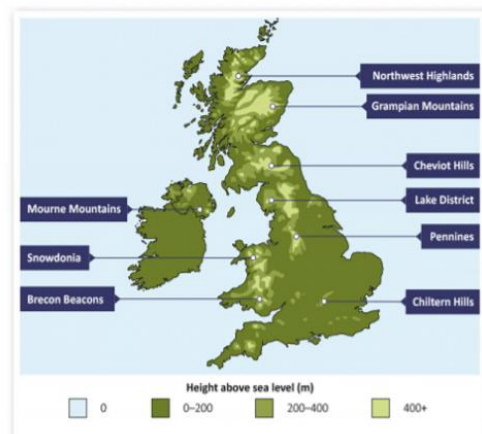
Vocabulary	Definition
altitude	The height above sea level.
Active	Still able to erupt
avalanche	A large amount of snow that quickly moves down a mountain or slope
crust	The outermost layer of the earth.
Core	The centre of the earth.
Dormant	Not active
eruption	When something explodes and spills out its contents
epicentre	The point on the earth's surface that is directly above the main part of an earthquake.
Extinct	Will never erupt again
gorge	A narrow valley with steep walls, found between hills or mountains.
Fault	A crack in the Earth's surface
lava	Hot, liquid rock that flows from a volcano.
magma	Hot, liquid rock located deep below the earth's surface.
magnitude	The size of something
Mantle	The layer between the crust and the core.
range	A series of mountains next to each other in a line
ridge	The top line of a mountain range
Richter scale	The scale used to measure the size of an earthquake
Seismic waves	The waves of energy caused by earthquakes that can be measured
summit	The highest point of a mountain.
Tsunami	Huge ocean waves caused by earthquakes
tectonic plate	Pieces of the earth's crust connected together.

How Are Mountains Made?				
Fold mountains	Fault-block mountains	Volcanic mountains	Dome mountains	Plateau mountains
Tectonic plates collide and rock is pushed up.	Cracks in the earth's surface open up, some chunks of rock are pushed up, some down.	Formed around volcanoes and made of layers of ash and cooled lava.	Formed when magma is forced upwards but doesn't ever flow out of the crust.	Materials taken away through erosion leave deep valleys or gorges next to high cliffs.
				
				

Contours are lines on a map that show the height of the land. The closer together the contours, the steeper the mountain.



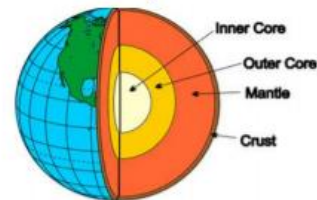
UK mountain ranges and hills



Where are the famous Mountains & Volcanoes

Mount Vesuvius (Italy/Europe) Krakatoa (Indonesia /Asia)

Mount St. Helens (Washington/USA) Mount Tambora (Indonesia/Asia) Mauna Loa (Hawaii/USA) Eyjafjallajökull



What is 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 causing a series of waves.
- As the waves travel through shallower water near land, they get bigger and bigger.



What causes Earthquakes?

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



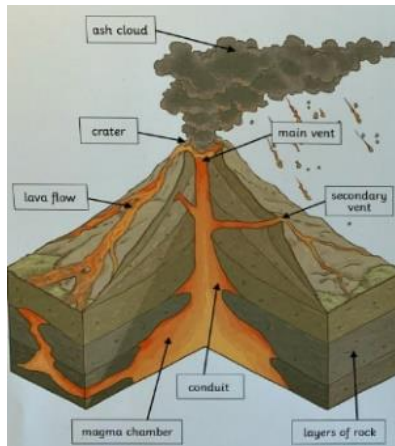
Why do people live near volcanoes?

People choose to live in volcanic areas despite the risks of an eruption. Volcanoes can provide people with many benefits such as:

- Volcanic rock and ash provide fertile land which helps crops to grow.
- Tourists are attracted to the volcano, which increases money to the area
- Geothermal energy provides cheaper electricity.
- Minerals are contained in lava, eg diamonds - these can be mined to make

Are there any active Volcanoes in Europe?

- Mount Vesuvius is the only active Volcano in Mainland Europe.
- It is located in Italy.
- Despite being the only active volcano on mainland Europe, and one of the most dangerous volcanoes, almost 3 million people live in the immediate area.



What are Volcanoes?

- Volcanoes are made when pressure builds up inside the earth. This affects the earth's crust causing *magma* to sometimes erupt through it.
- *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.
- *Extinct* volcanoes aren't expected to

How do people use mountains?

More than 50 million people visit mountains each year.

Many mountain towns around the world depend on tourists to support them. People in the town provide food and lodging for tourists who come to enjoy the nearby mountains.

Typical mountain activities: Mountaineering/Paragliding,

Summer Activities: Walking/hiking/bird watching/rafting/Mountain Biking

Winter Activities: skiing,/snow boarding,/Sledging /Tobboganing/Icefall climbing/Snow-Shoe Trekking/Winter walking/Ice skating