



<u>Vocabulary</u>	<u>Definition</u>
Mountain	A huge raised part of the Earth's surface.
volcano	An opening in the Earth's surface
main vent	Channel through which magma travels to reach Earth's surface.
crater	Bowl shaped hole caused by an eruption
magma chamber	Underground pool of liquid rock
eruption	An expulsion of gas, rock and lava
plate tectonics	The outermost layer of the earth is crust that is broken into pieces.
valley	Area of low land between mountains.
ridge	A long, narrow high section of land
plateau	Area of flat high ground.

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 erupt again.

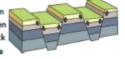
How mountains are formed:



Fold mountains—Fold mountains occur when tectonic plates collide. The rock of the Earth's surface is pushed up to create mountains.

Fault-block moun-

tains—When cracks in the Earth's surface open up, large chucks of rock can be pushed up while



others are pushed down. This creates mountains with a long slope on one side, and a sharp drop on the other.



Volcanic mountains— Volcanic mountains are formed around volcanoes. Volcanic mountains are made of layers of ash and cooled lava. Dome mountains—Dome mountains are smooth and round-looking. They are formed when magma is forced up between the crust

and the mantle, but doesn't ever flow out. The magma makes the land bubble up like a balloon.

Plateau mountains—Plateau mountains are different



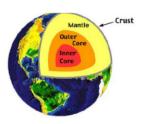
from the other mountain types. They haven't formed because of rock or magma being pushed up They form because of materials being taken away through erosion, which has left deep valleys or gorges next to high cliffs.



Why do volcanoes erupt?

- The Earth's crust is made up of huge slabs called plates, which fit together like a jigsaw puzzle.
- These plates sometimes move.
- The friction causes earthquakes and volcanic eruptions near the edges of the plates.
- The theory that explains this process is called plate tectonics.

Key Features summit The top of a mountain. slope An area of ground A rock formation visible from the surface. increasing in height. snow line Above here snow and plateau ice cover the mountain An area of flat, high The area of low land between mountains The highest point A long, narrow, high section of land. forests are found. face The "side" of a The bottom of the mountain



What is it like living by a volcano?

- The eruptions, although destructive, enrich the soil
- Surrounding area is extremely fertile and great for growing crops, especially lemons and limes - known as citrus fruits
- Geothermal power
- Tourist destination
- Scientists help residents stay safe by identifying warning signs of an eruption.