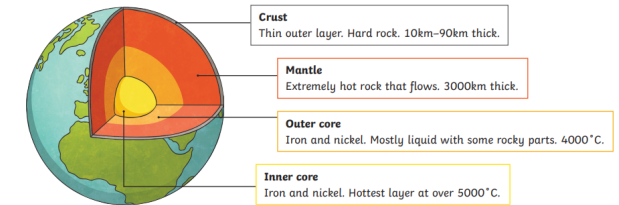


# YEAR 4 - VOLCANOES (including Mountains)

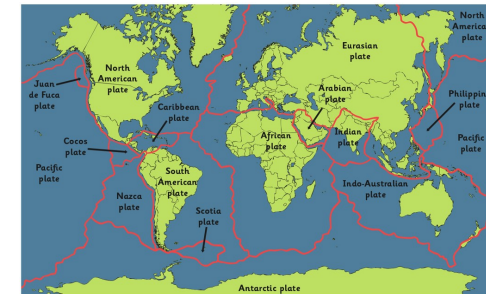
Volcanoes are made when pressure builds up inside the earth. This affects the earth's crust causing magma to sometimes erupt through it. Active volcanoes have erupted in the last 10,000 years. Dormant volcanoes haven't erupted in the last 10,000 years but may erupt again. Extinct volcanoes aren't expected to erupt again.



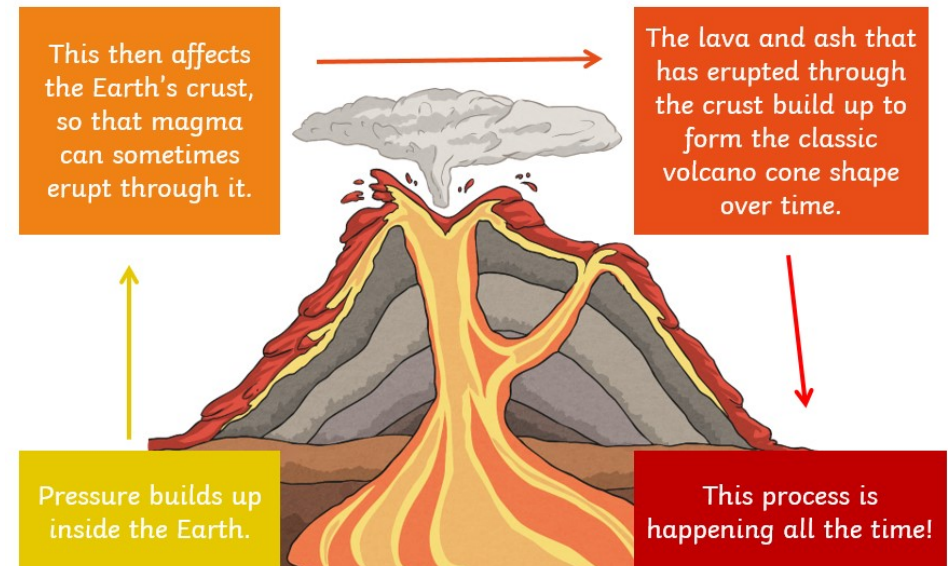
## Key Vocab:

active	A volcano that has erupted recently or is erupting now.
altitude	The height above sea level.
ash	Tiny pieces of rock or lava blasted into the air during a volcanic eruption.
core	The centre of the earth which is made of nickel and iron.
crust	The outermost layer of the earth.
dormant	A volcano that hasn't erupted recently and is not expected to erupt again.
<u>eruption</u>	A volcano that hasn't erupted recently and is not expected to erupt again.
extinct	A volcano that hasn't erupted recently and is not expected to erupt again.
gorges	A narrow valley with steep walls, found between hills and mountains.
lava	Hot, liquid (molten) rock that flows from a volcano
magma	Hot, liquid (molten) rock located deep below the earth's surface.
mantle	The layer between the crust and the outer core of the earth.
pumice	A light, porous (allows air and water to pass through) volcanic rock formed when lava cools.
summit	The highest point of a mountain.
tectonic plate	Pieces of the earth's crust connected together.

The Earth's crust isn't one solid layer. It is broken up into huge areas called tectonic plates that float on top of the mantle.



## How Are Volcanoes Made?



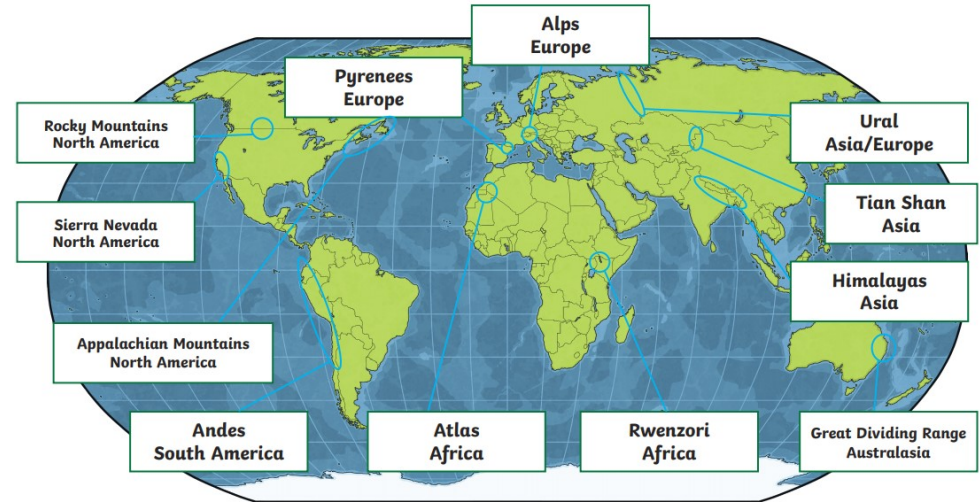
# YEAR 4 - VOLCANOES (including Mountains)

## Mountains

- Mountains are a natural part of the landscape with steep slopes.
- They rise above 300m.
- They have a **summit** of at least 600m.
- Some mountains are found in groups called a mountain range but some mountains can be on their own.
- Not all mountains are single **summits**.
- Mount Everest is the highest mountain in the world – 8848m.



## Mountain Ranges of the World



## 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.

