

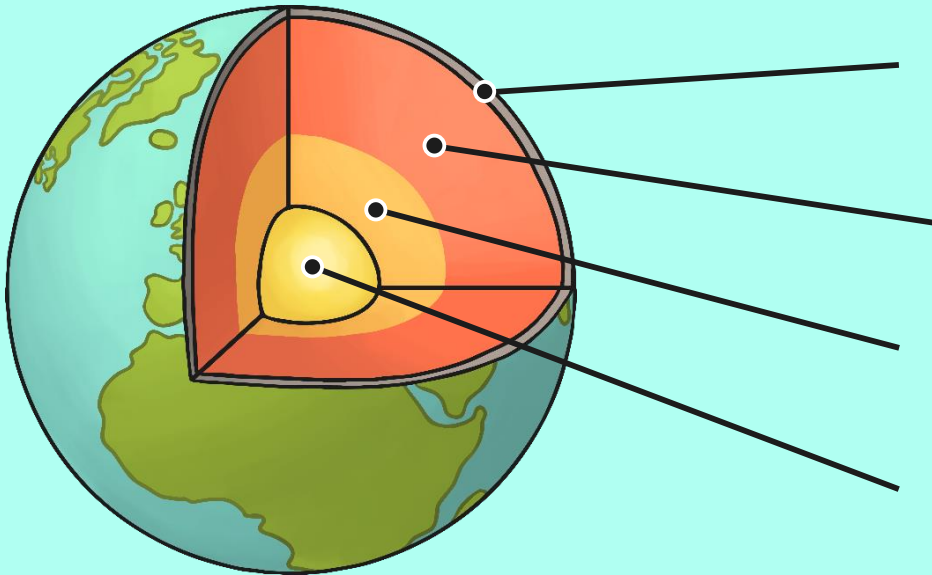


How Mountains are Made

twinkl

Can You Remember What's under Your Feet?

Can you join the words to the correct layers?



inner core

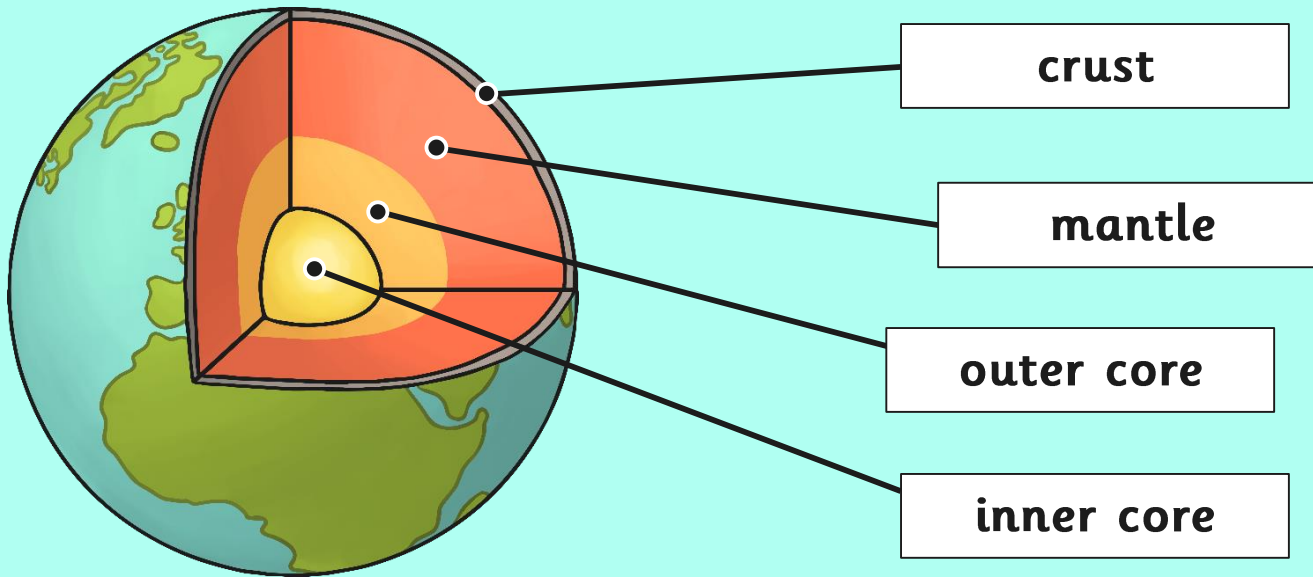
mantle

crust

outer core

Can You Remember What's under Your Feet?

Can you join the words to the correct layers?



Can You Remember What's under Your Feet?

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.

This map shows where the tectonic plates are.

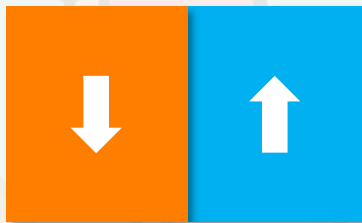


How Can You Move Your Plates?

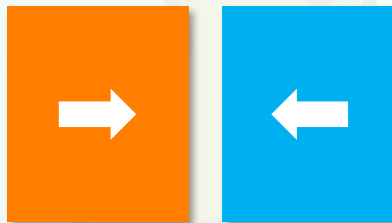
Use two pieces of paper.

Lay your “plates” flat onto the table.

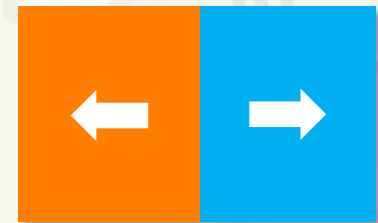
How many different ways can you move the plates around?



**Rubbing
together**

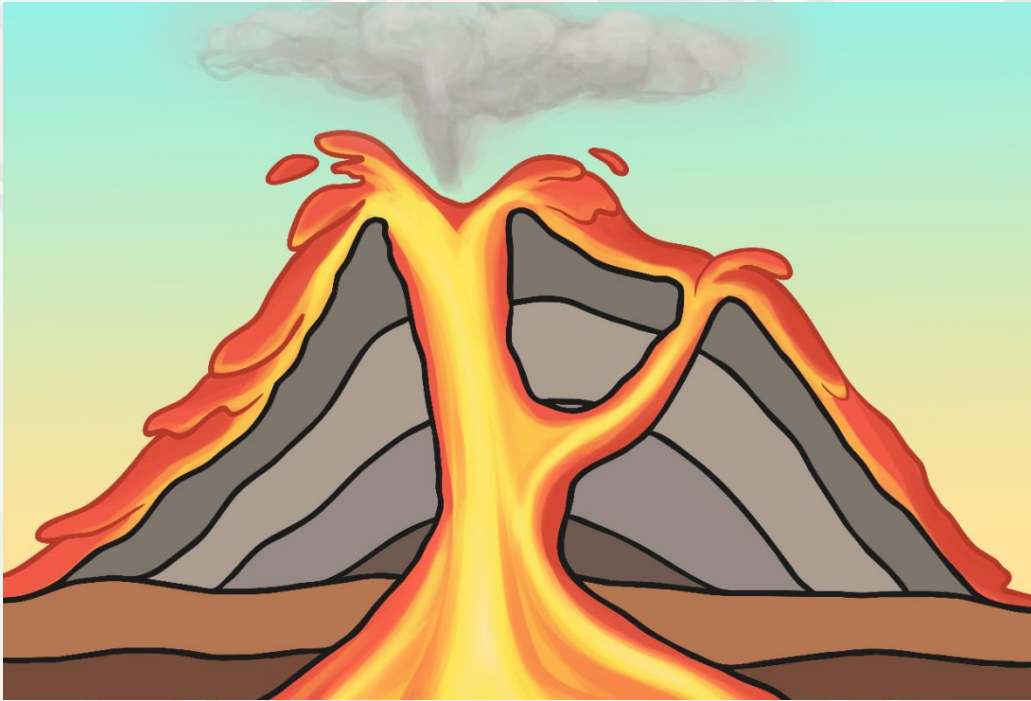


**Towards
each other**



**Away from
each other**

What Have Tectonic Plates Got to Do with Mountains?



What happens when magma escapes through gaps in the Earth's surface?

Volcanoes are one way mountains were formed.

Watch the video to find out another way.

<https://www.bbc.co.uk/bitesize/clips/z4dxn39>



How Mountains are Made

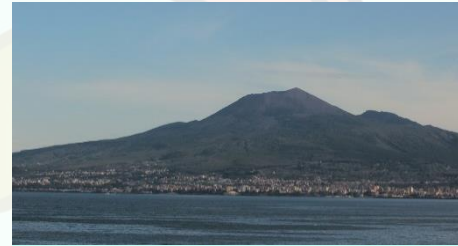
There are 5 main types of mountains:



fold mountains



fault-block mountains



volcanic mountains



dome mountains



plateau mountains

Each one is formed differently.

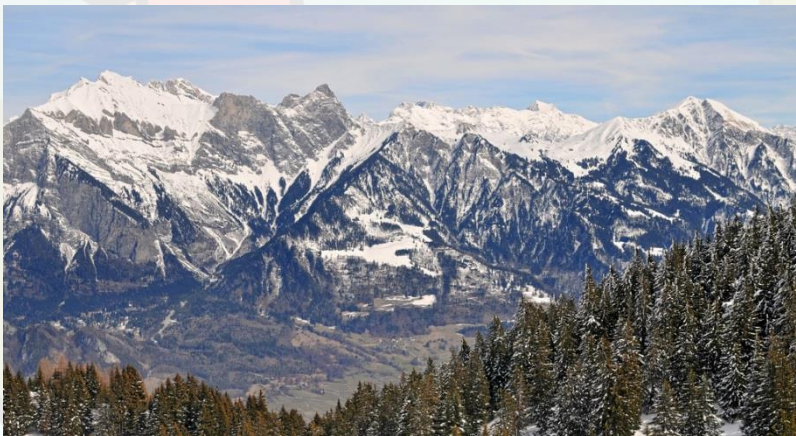
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Fold Mountains

Fold mountains occur when tectonic plates collide.

The edges of the plates crumple as they are pushed together.

The rock of the Earth's surface is pushed up to create mountains.

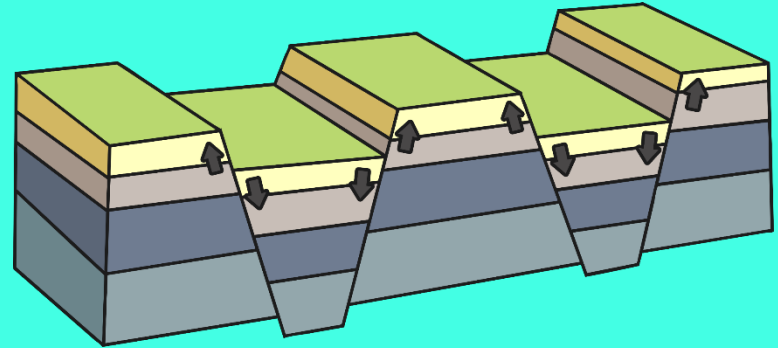


The Alps are fold mountains.

Fault-block Mountains

When cracks in the Earth's surface open up, large chunks 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.

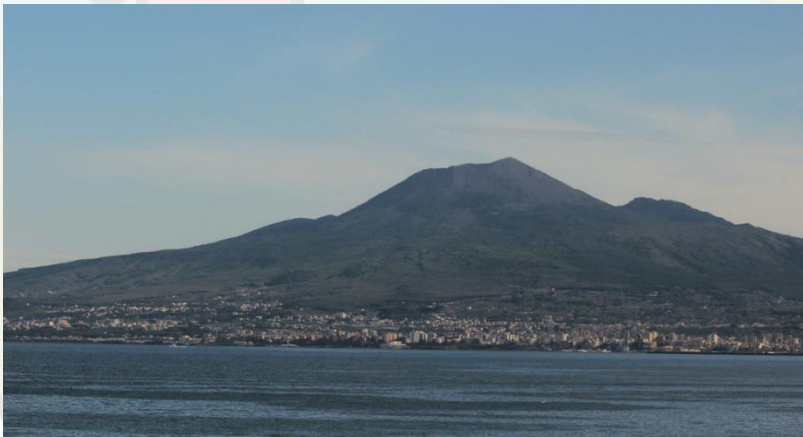


The Sierra Nevada mountains in California, USA are fault-block mountains.

Volcanic Mountains

Volcanic mountains are formed around volcanoes.

Volcanic mountains are made of layers of ash and cooled lava.



Mount Vesuvius, Italy is a volcanic mountain.

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.



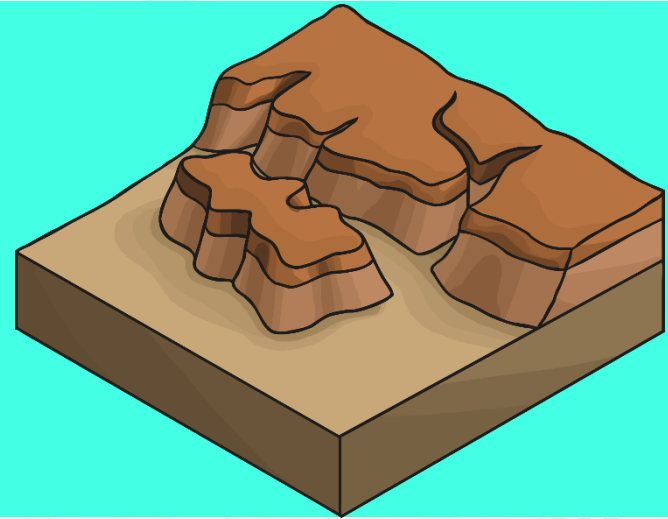
**Devils Tower, USA
is a dome mountain.**

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.



The Allegheny Mountains, USA, are an example of this type of mountain.



Look back at the activity you completed yesterday. Can you find out how each of those mountains were formed?

Complete the sheet found on the website to label the features of a mountain. You could also do this by looking at one specific mountain, including those from yesterday. Alternatively, using resources you have at home, you could choose to create a model of a mountain and label the features. How would your mountain have been formed?