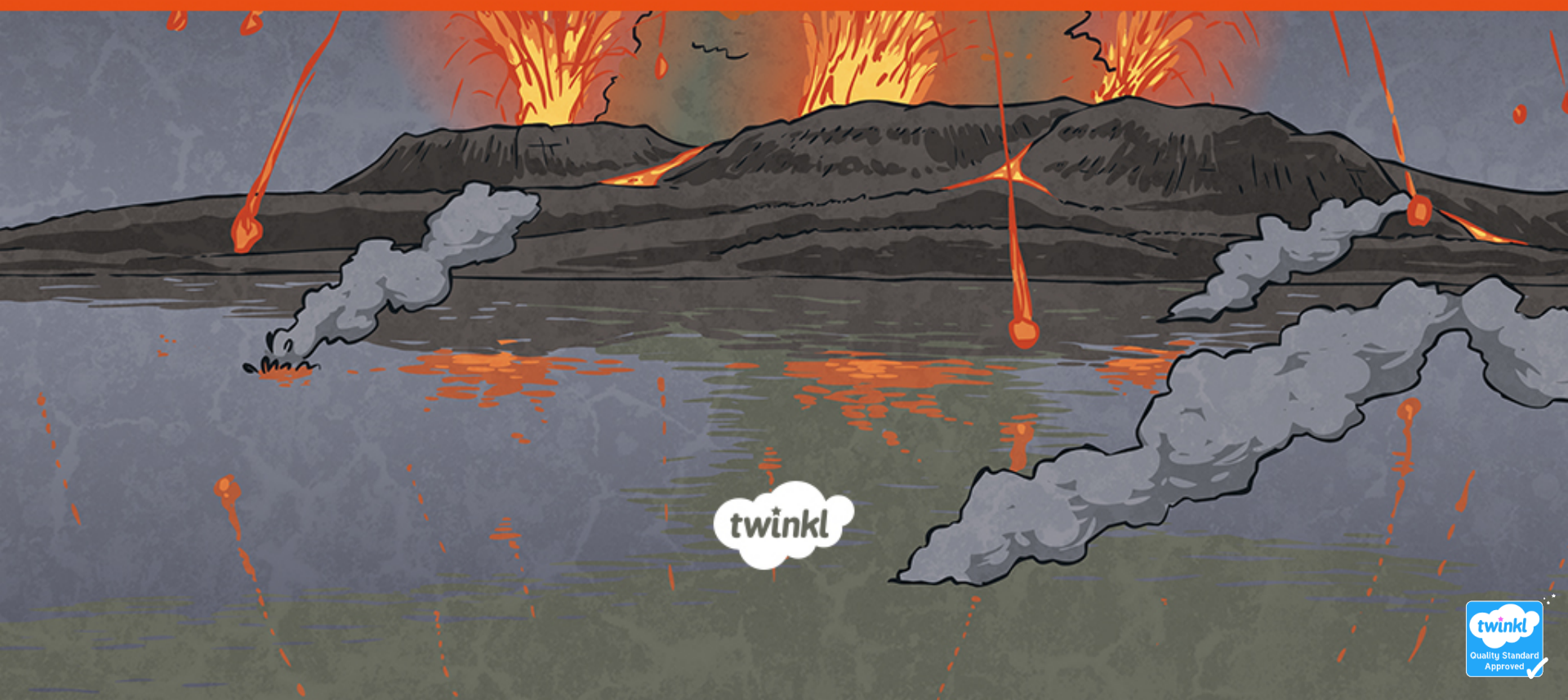


# Volcanoes

Extreme Earth



twinkl

# Can You Remember What's Under Your Feet?

The crust: This is the outermost layer. The land we stand on is not just one solid piece. It is made of many pieces called plates. These plates fit together like puzzle pieces.

**crust**

The mantle: This the widest part. It is extremely hot and is consists of semi-molten magma.

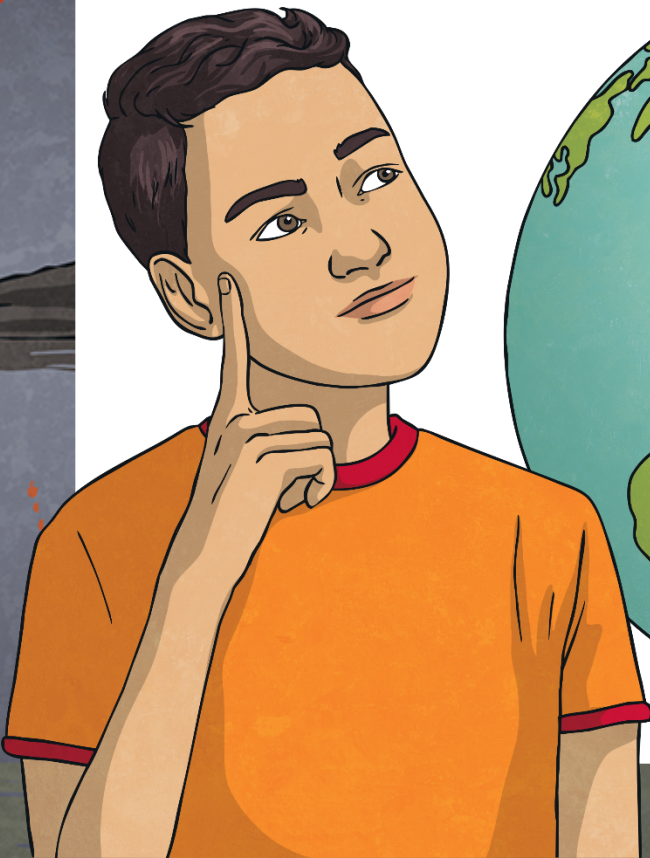
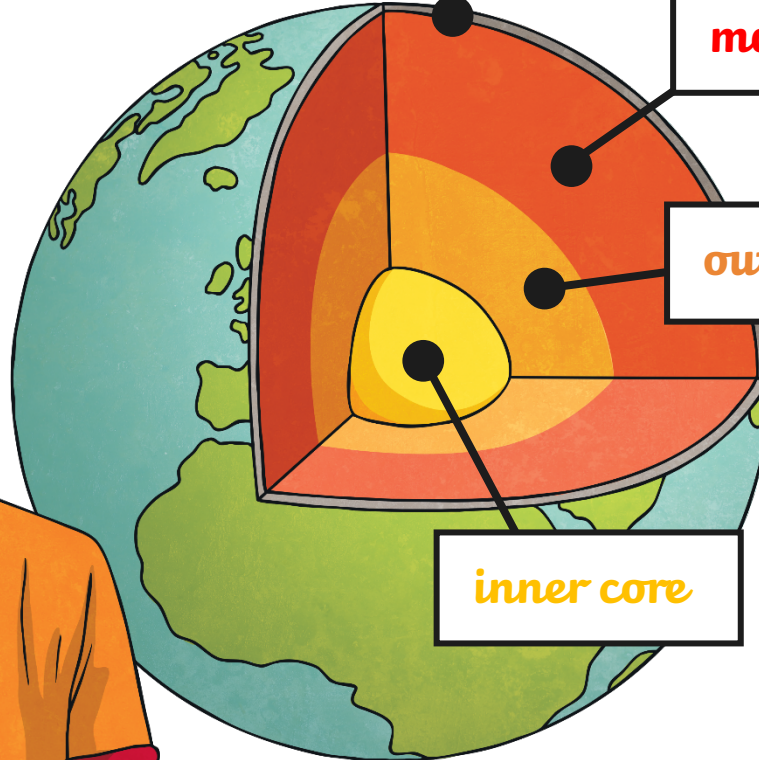
**mantle**

**outer core**

The outer core: This area is made of iron and nickel. It is very hot!

**inner core**

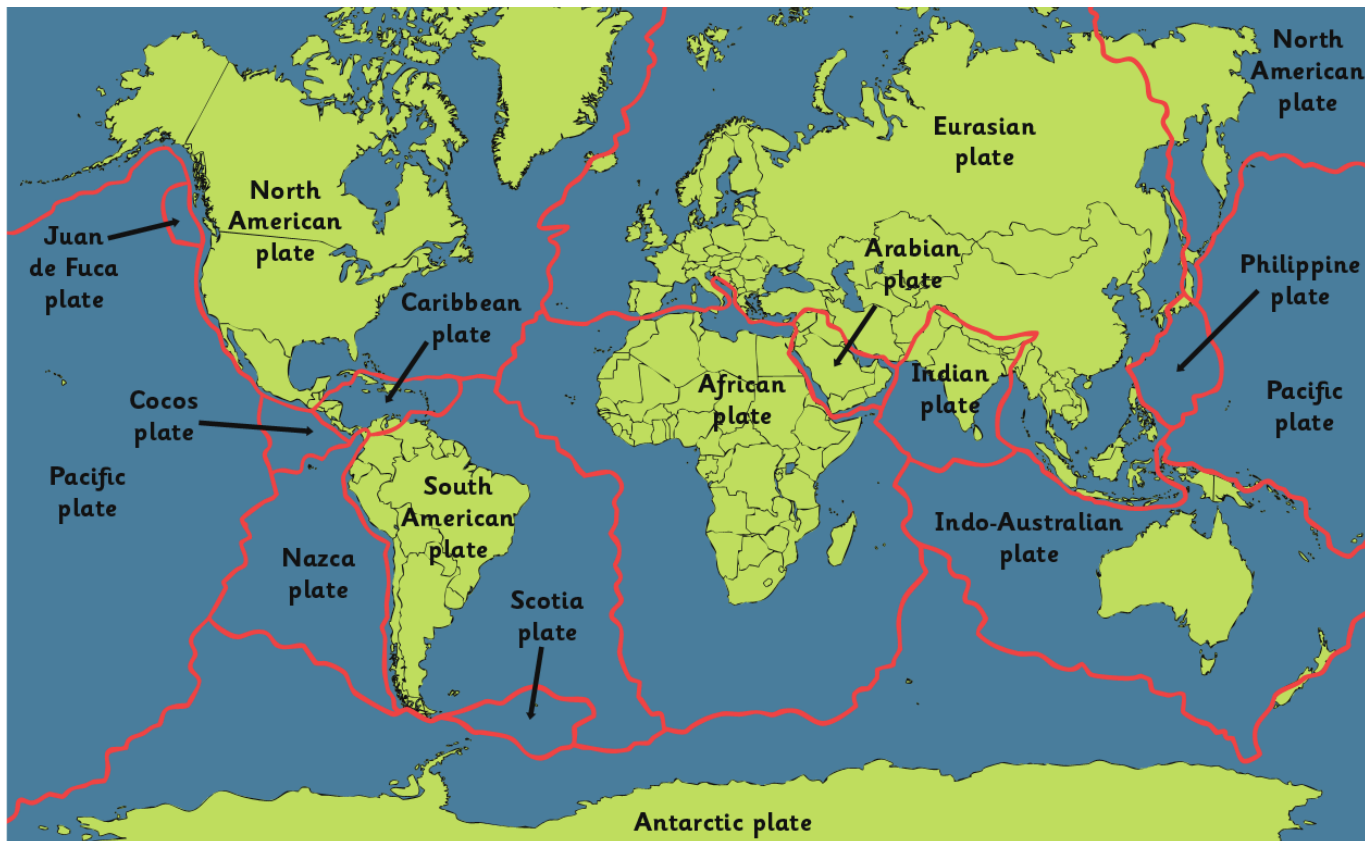
The inner core: This is the warmest layer. Temperatures can reach 5,500°C.





# Tectonic Plates

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.

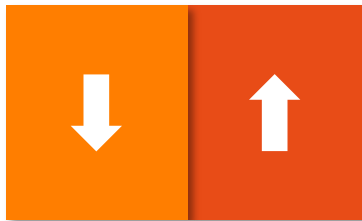


# How Can You Move Your Plates?

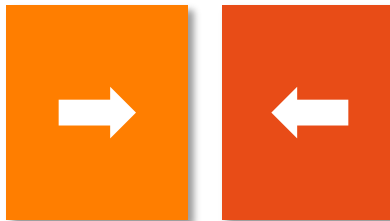
Use two pieces of scrap paper to show how the Earth's plates can move.

Lay your "plates" flat onto the table.

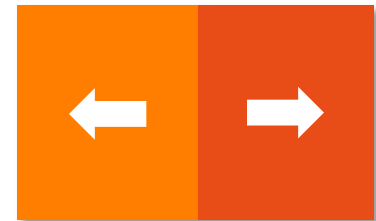
How many different ways can you move the plates around?



Rubbing  
together

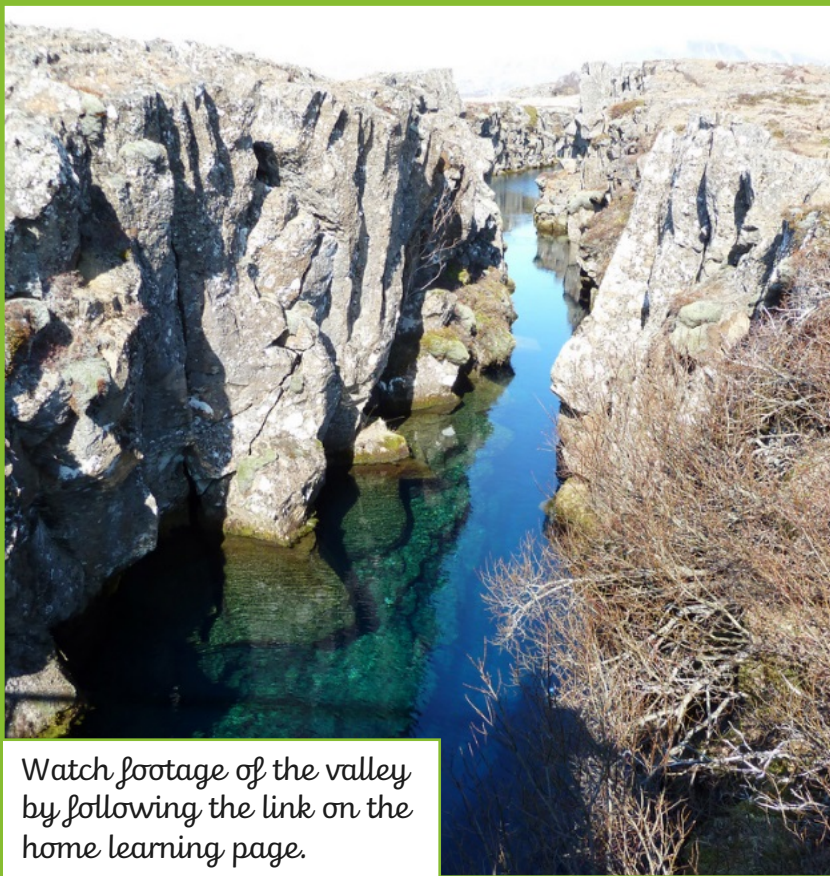


Towards  
each other



Away from  
each other

# What Have Tectonic Plates Got to do with Volcanoes?



Watch footage of the valley by following the link on the home learning page.

This valley is over 9000 years old.

It is getting 7mm wider every year as the plates are still moving apart.

The rocky valley floor was caused by cooled lava.

This valley is surrounded by volcanoes that have formed as the plates move apart.

Photo courtesy of Rob Young (@flickr.com) - granted under creative commons licence - attribution



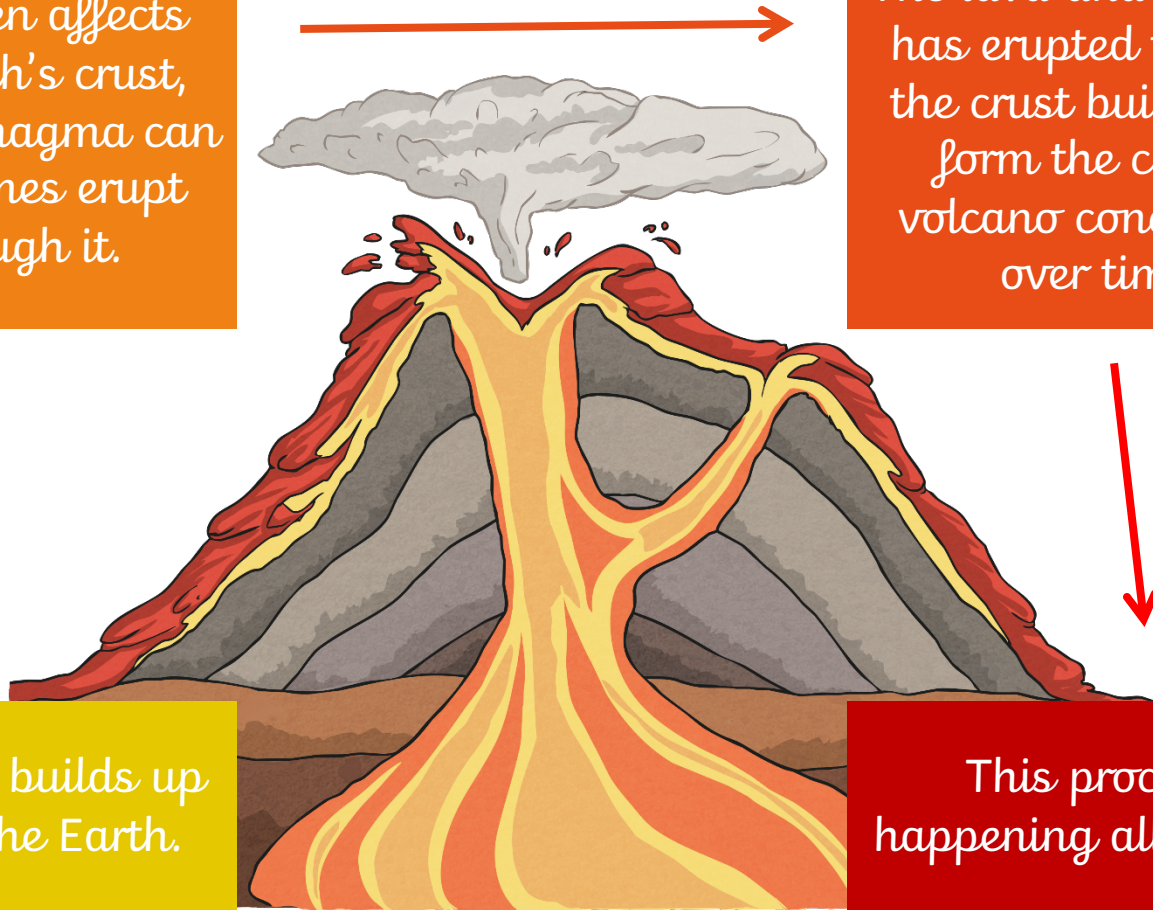
# How Are Volcanoes Made?

This then affects the Earth's crust, so that magma can sometimes erupt through it.

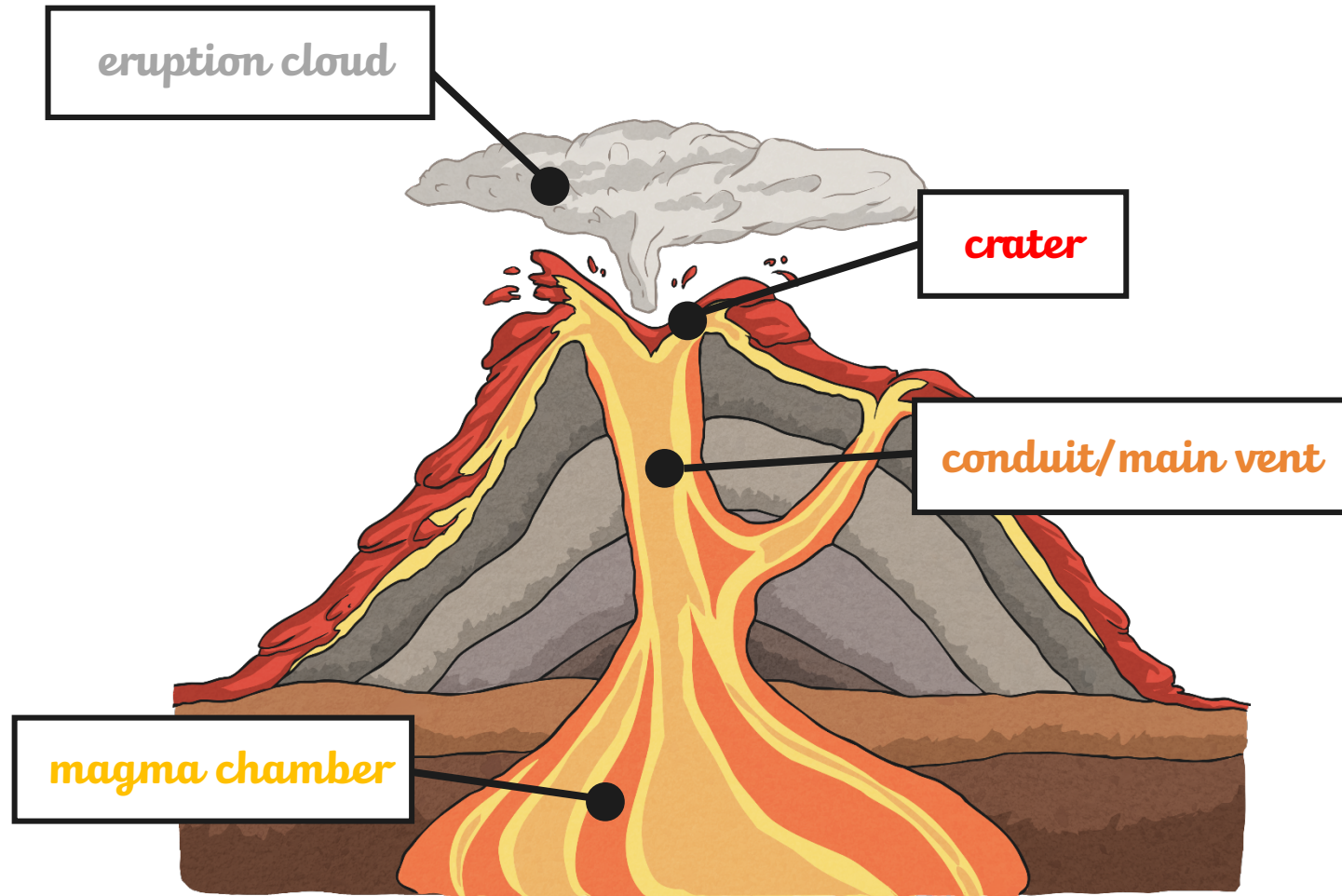
The lava and ash that has erupted through the crust build up to form the classic volcano cone shape over time.

Pressure builds up inside the Earth.

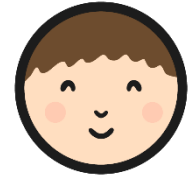
This process is happening all the time!



# What's It All Called?



# How a Volcano Is Made



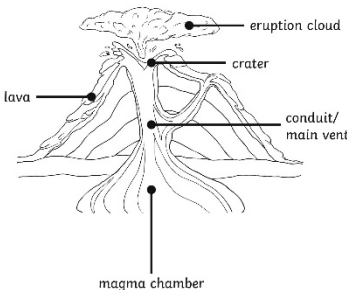
Use the **Activity Sheet** you have been given to explain how a volcano is created and grows, and what its main parts are called.



**How a Volcano Is Made**

To explain how volcanoes are formed.

1 Write a small paragraph about each stage of a volcano's life.



2

3

Key words: magma, pressure, lava, eruption.

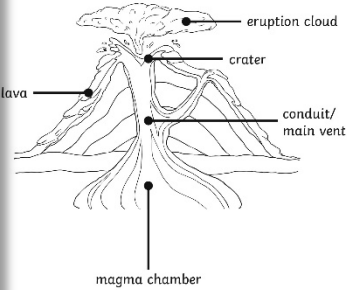
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Geography | Year 3 | Extreme Earth | Volcanoes | Lesson 2

**How a Volcano Is Made**

To explain how volcanoes are formed.

Complete the sentences describing a volcano's life.



2 This then affects the Earth's c\_\_\_\_\_, so that m\_\_\_\_\_ can sometimes e\_\_\_\_\_ through it.

4 This process is happening all the time!

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