Volcanoes

The word 'volcano' comes from the island 'Vulcano', which is a volcanic island in Italy. The island got its name from the Roman god of fire - Vulcan.



- There are over 1500 active volcanoes on the Earth.
- There are more than 80 volcanoes under the ocean, although these are just the ones that have been discovered.

What is a volcano?

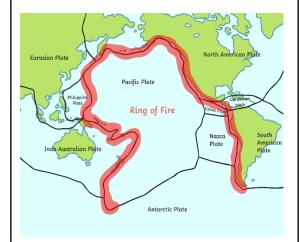
 A volcano is a mountain which opens down to a pool of molten rock below.

How are volcanoes formed?

- Volcanoes are formed when magma at the centre of the Earth pushes its way upwards.
- When magma travels
 through the Earth's crust
 and reaches the Earth's
 surface, it cools and hardens
 into a pile of rock.
- As the volcano erupts again, the pile or rock gets bigger.

The Ring of Fire

 An area of the Pacific Ocean which is home to 75% of the world's volcanoes.

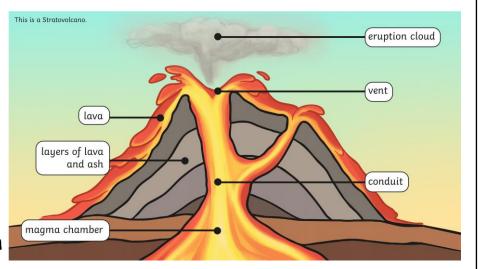


• It contains a string of 452 volcanoes.

<u>Vocabulary</u>	
Magma	Molten (liquid) rock beneath the
	Earth's surface.
Ash	Tiny pieces of rock or lava blasted
	into the air during a volcanic eruption.
Lava	Molten (liquid) rock that flows out of
	a volcano during an eruption.
Magma	A large pool of magma beneath the
chamber	Earth's surface.
Vent	Part of the Earth's crust where gases
	and lava erupt from the volcano.
Tectonic	Huge slabs which make up the Earth's
plates	crust and fit together a bit like a
	jigsaw.
Earth's crust	The outer layer of the Earth - the
Earth's crust	part we live on.
Earth's crust Mantle	•
	part we live on. The second layer of the Earth. It is made up of magma and is
	part we live on. The second layer of the Earth. It is made up of magma and is approximately 2897km thick. This is
	part we live on. The second layer of the Earth. It is made up of magma and is
Mantle	part we live on. The second layer of the Earth. It is made up of magma and is approximately 2897km thick. This is what comes out of a volcano when it erupts.
	part we live on. The second layer of the Earth. It is made up of magma and is approximately 2897km thick. This is what comes out of a volcano when it erupts. A volcano that has erupted recently
Mantle	part we live on. The second layer of the Earth. It is made up of magma and is approximately 2897km thick. This is what comes out of a volcano when it erupts.
Mantle	part we live on. The second layer of the Earth. It is made up of magma and is approximately 2897km thick. This is what comes out of a volcano when it erupts. A volcano that has erupted recently
Mantle Active	part we live on. The second layer of the Earth. It is made up of magma and is approximately 2897km thick. This is what comes out of a volcano when it erupts. A volcano that has erupted recently and is likely to erupt again. A volcano which has not erupted recently but could still erupt again.
Mantle Active	part we live on. The second layer of the Earth. It is made up of magma and is approximately 2897km thick. This is what comes out of a volcano when it erupts. A volcano that has erupted recently and is likely to erupt again. A volcano which has not erupted recently but could still erupt again. A volcano that hasn't erupted
Mantle Active Dormant	part we live on. The second layer of the Earth. It is made up of magma and is approximately 2897km thick. This is what comes out of a volcano when it erupts. A volcano that has erupted recently and is likely to erupt again. A volcano which has not erupted recently but could still erupt again.

What causes volcanoes to erupt?

- Tectonic plates sometimes move in different directions and at different speeds, which causes friction.
- When two plates collide, magma is squeezed up between them and bubbles of gas form inside it.
- Runny magma erupts through vents in the Earth's crust, then flows onto the surface as lava.
- If magma is thick, pressure builds up as the magma rises. When the pressure is too much, an explosive eruption can happen.



Some volcanoes around the world

Mount Fuji

- Mount Fuji is located in Japan.
- Its highest point is 3776m high.
- Fuji last erupted in 1707.
- It is the highest volcano and is considered one of the three holy mountains.
- More than 200,000 people climb to the top every year.





<u> Mount Etna</u>

- Mount Etna is located in Sicily, Italy.
- Its highest point is 3330m high.
- It is Europe's highest and most active volcano.
- It last erupted in 2018.
- Mount Etna has the longest recorded history of eruptions; they have been documented since 1500BC.





Mount Loa

- Mount Loa is one of five volcanoes that form the Island of Hawaii in the Pacific Ocean.
- Its highest point is 4170m high.
- Mount Loa rises from the sea floor and its height from base to summit is 9170m, making it the world's largest active volcano.
- It last erupted in 1984.



