

Extreme Earth

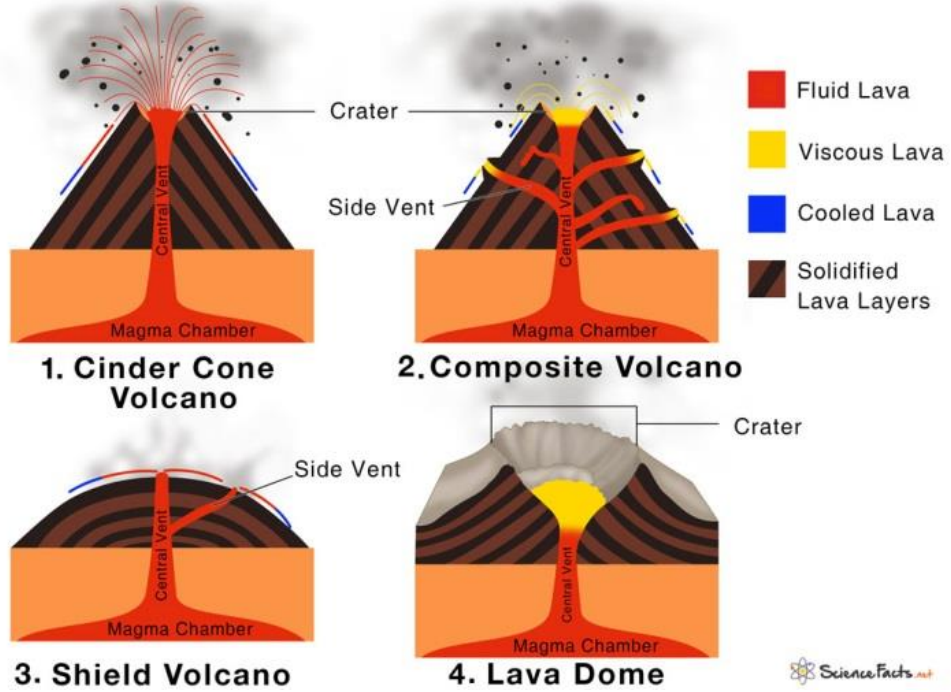


Active Volcanoes, Plate Tectonics, and the "Ring of Fire"



Volcanoes occur where tectonic plates meet. The most famous area is 'The Ring of Fire' in Asia.

TYPES OF VOLCANOES



Case Study: Mount Vesuvius (79AD)

Volcano Name: Mount Vesuvius.

Type of volcano: Composite volcano.

When? 24th August 79AD.

Where? Roman city of Pompeii, near Naples in Italy, located 5km from Mount Vesuvius.



Artist impression of 24th August 79AD eruption of Mount Vesuvius.

Glossary

active volcano	A volcano that is erupting or likely to erupt.
ash	The bits of rock dust that are thrown into the air during volcanic activity.
ashfall	This is when the ash from ash clouds fall to the earth.
crater	The big hollow areas inside the volcano.
dormant volcano	Seen as a 'sleeping volcano', it is a volcano that has not erupted for a while but technically could in the future.
eruption	The event where magma from beneath the earth's crust forces its way out, exploding out of a volcano in the form of lava.
Etna	Found in Sicily, this is the most active volcano in Europe.
extinct volcano	A volcano that has not erupted for a long time and is unlikely to erupt at all in the future.
igneous (or volcanic) rock	The cooled, and therefore solid, rock that came out of the volcano as lava.
lava	Magma that has reached the surface and come out of the volcano.
magma	The extremely hot, molten rock layer that lies beneath the earth's crust.
Ring of Fire	The circle of earthquake sites and volcanoes in the Pacific Ocean.
tsunami	A giant wave caused by an earthquake under the ocean or an eruption of an underwater volcano.
vent	The opening of a volcano.
Vesuvius	An active volcano (near Naples in Italy) that destroyed the towns of Pompeii and Herculaneum. It last erupted in 1944.
volcanologist	Someone who studies volcanoes.
Vulcan	The Roman god of fire who volcanoes were named after.

Case Study: Whakaari, New Zealand.

Volcano Name: Whakaari, White Island.

Type of volcano: Cone volcano

When? 29th December 2019.

Where? White Island, Bay of Plenty, North Island, over 100 miles from Auckland.



Whakaari Volcanic
Eruption 29th December
2019.