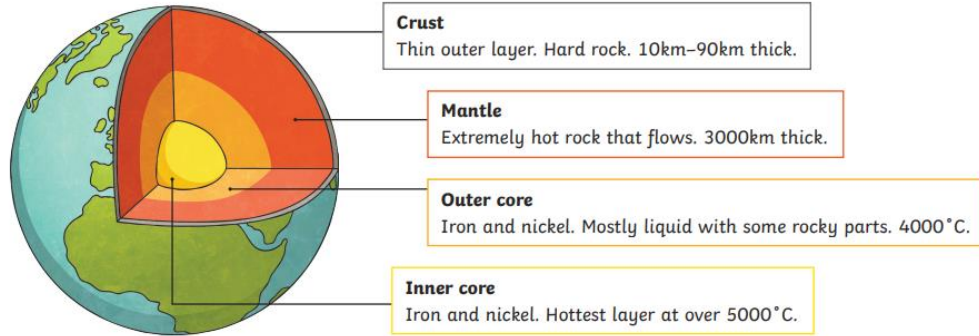


The Layers of the Earth

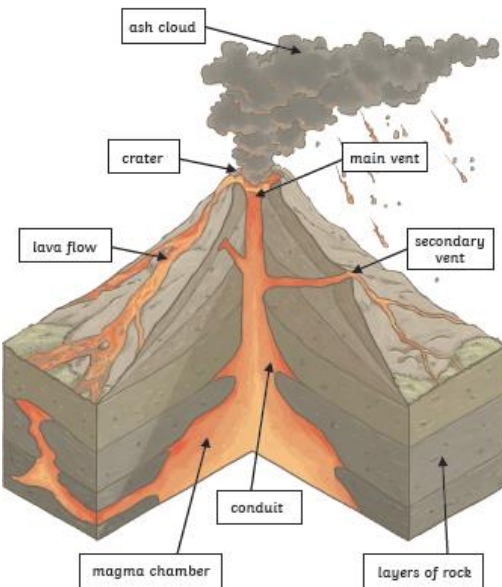
The earth is made of different layers. The upper mantle mixes and moves, causing pressure underneath the crust. This pressure can sometimes cause the mantle to leak out onto the surface of the Earth - a volcano!



Key Vocabulary

Volcano	an opening or rupture in the Earth's crust through which lava, ash and gases escape.
Magma	a molten substance beneath the Earth's crust.
Lava	molten , hot rock flowing from a volcano.
Crater	— the mouth of a volcano.
Eruption	a volcano erupts when it shoots out lava
Molten	hot, melted rocks.
Active volcanoes	have a recent history of eruptions (Etna and Vesuvius).
Dormant volcanoes	have not erupted in a very long time but may erupt again (Vulcano).
Extinct volcanoes	aren't expected to erupt again.

A Cross Section of a Volcano



Year 4: Explosive Italy

A photograph of Mount Etna erupting in 2021.



Short-term effects	burning crops and buildings, ash coverings, breathing difficulties, travel disruptions, lack of sunlight, cooling of the area's temperature.
Long-term effects	The development of volcano early warning systems.

Italy

- Italy is in southern Europe, has a Mediterranean climate and a temperate biome.
- Mount Etna is found on the Italian island of Sicily and is Italy's (and Europe's!) tallest and most active volcano. It is 3,350m tall and last erupted in February 2021!
- Mount Vesuvius, found on mainland Italy, is most famous for being the volcano which erupted in 79AD and buried the city of Pompeii under a blanket of ash and pumice.

