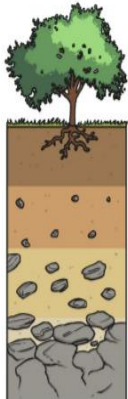


# Angry Earth



## Layers of Soil

humus	Rotting dead leaves and animals.
topsoil	Plant's roots grow here. Very few rocks.
subsoil	Rocks and stones. Full of nutrients. Tree roots may reach. <b>Fossils.</b>
bedrock	A mass of rocks. <b>Fossils.</b>

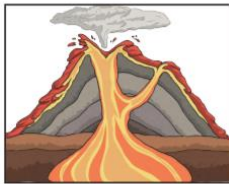
## Key Vocabulary

<b>cumulonimbus cloud</b>	Large thunderstorm clouds.
<b>erupt</b>	To suddenly burst out causing lava to explode out of the earth's surface.
<b>fossils</b>	The remains of plants or animals that lived a long time ago which can be found deep in the earth.
<b>magma</b>	Extremely hot, liquid rock.
<b>tectonic plates</b>	The earth's crust is made up of large areas called <b>tectonic plates</b> that join together.
<b>active volcano</b>	A volcano that has had at least one eruption in the last 10,000 years
<b>dormant volcano</b>	A volcano that is due to erupt but has not yet (the magma chamber is still filling)
<b>extinct volcano</b>	A volcano that has NOT erupted in the last 10,000 years.

## Key Facts

### Volcanoes

- Volcanoes are made when pressure builds up inside the earth. This affects the earth's crust causing **magma** to sometimes **erupt** through it.
- Active volcanoes have **erupted** in the last 10 000 years.
- Dormant volcanoes haven't **erupted** in the last 10 000 years but may erupt again.
- Extinct volcanoes aren't expected to **erupt** again.



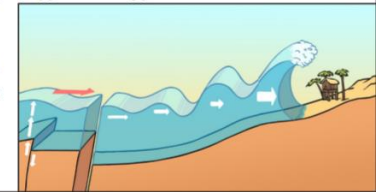
### Earthquakes

- Earthquakes are caused when the earth's **tectonic plates** suddenly move.
- Most earthquakes occur near the **tectonic plate** boundaries.
- Earthquakes can cause lots of damage to roads, buildings and property.



### Tsunamis

- A tsunami is a giant wave caused by a huge earthquake under the ocean.
- The earthquake causes a large amount of water to be displaced very quickly causing a series of waves.
- As the waves travel through shallower water near land, they get bigger and bigger. The wave crashes onto the land causing devastation to buildings and sometimes even lives.

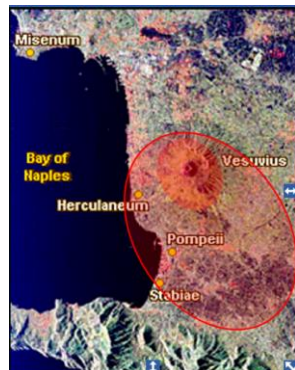


### Why is Pompeii so famous?

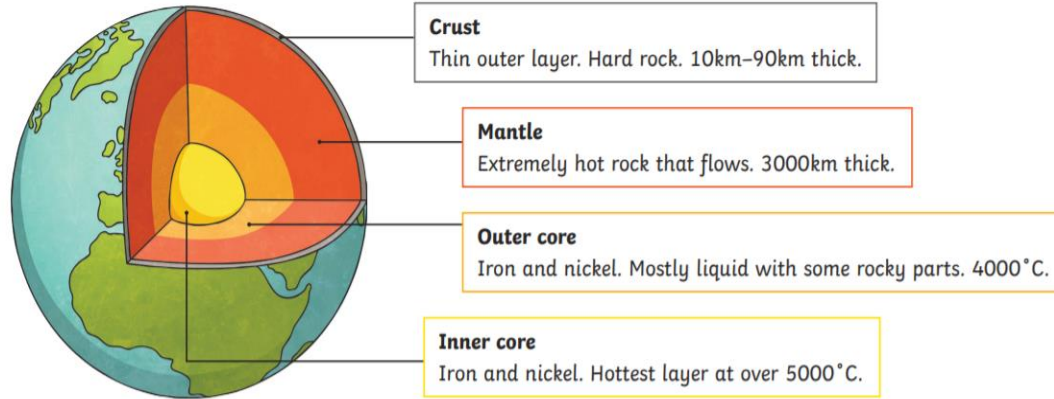
Pompeii was a Roman town in southern **Italy**. On 24 August 79AD was buried under volcanic ash and rock following the eruption of the **volcano**, Mount **Vesuvius**. Most of the people who lived there were killed.

The town was excavated 1,600 years later and the remains of many items, buildings and people were found in a 'petrified' state (as they were at the time of the eruption).

Today Pompeii is a tourist destination where **you can walk through the streets of what was once the first-century Roman city of Pompeii.**



## Layers of Earth

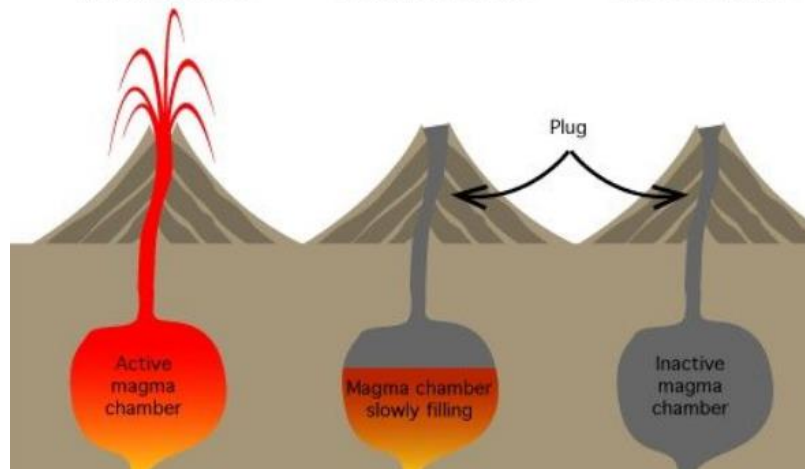


## Types of Volcano:

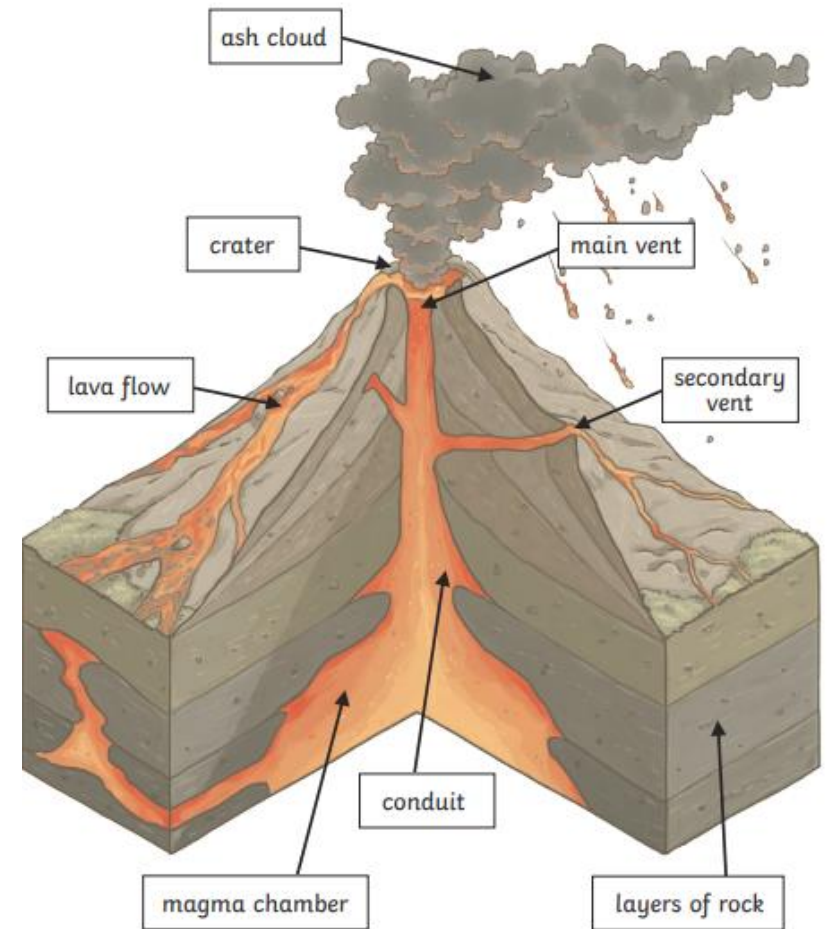
Active volcano

Dormant volcano

Extinct volcano



## Volcano Cross-Section



## Key Dates in Chronological Order:

**February 5<sup>th</sup>**  
**62AD**

An earthquake hits Pompeii

**August 24<sup>th</sup> 79AD**

Mount Vesuvius erupts and buries Pompeii in ash and rock

**1748**

Pompeii is re-discovered and people start to dig it up but mainly for treasure!

**1863**

The digging up of Pompeii is taken over by archaeologists who focus on discovering and preserving history

**March 18<sup>th</sup> 1944**

Mount Vesuvius erupts again during World War 2

**2021**

The ruins can still be visited today but it is believed the volcano will erupt again one day!