



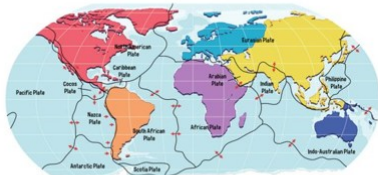
# Year 4: We Are Volcanologists

**Key Question: How do volcanoes affect the lives of people living near them?**

## Key Vocabulary

	<b>Active volcanoes</b>	Volcanoes that have erupted in the last 10,000 years.
	<b>Boundary</b>	The line between two tectonic plates.
	<b>Core</b>	The centre of the Earth.
	<b>Crater</b>	The mouth of the volcano.
	<b>Crust</b>	The thin layer of the Earth's surface.
	<b>Dormant volcanoes</b>	Volcanoes that haven't erupted in the last 10,000 years but may erupt again.
	<b>Extinct volcanoes</b>	Volcanoes that aren't expected to erupt again.
	<b>Lava</b>	Liquid magma when it reaches the surface of the Earth.
	<b>Magma</b>	Molten rock in the mantle
	<b>Mantle</b>	The molten rock that surrounds the core
	<b>Tectonic plates</b>	Huge plates that make up the Earth's crust.
	<b>Vent</b>	The opening through which lava flows in a volcano.
	<b>Volcano</b>	The an opening in the Earth's crust form which molten, lava, rock, ash and dust are ejected.

## Important maps I will refer to:



**Tectonic Plate Map**

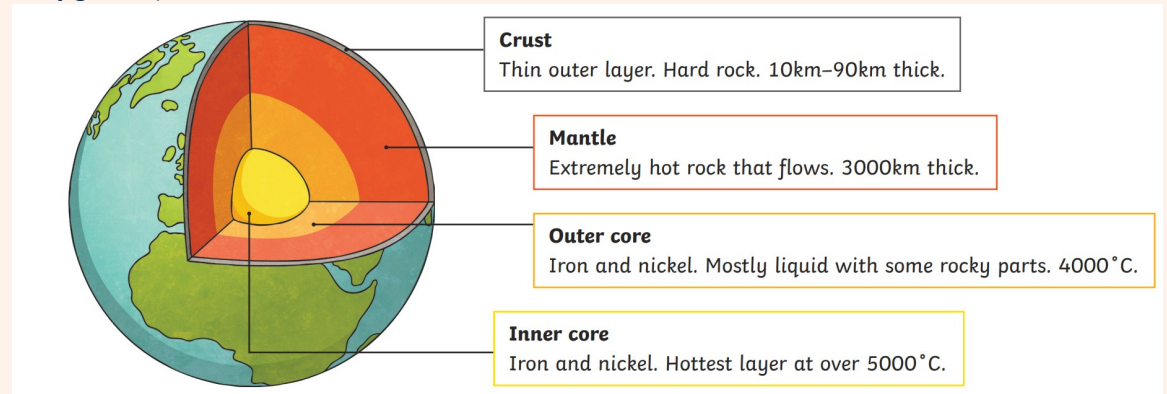


**Map of Volcanoes**

## Layers of Earth

The Earth has three layers—the crust at the very top, then the mantle, then the core at the very middle of the planet.

The Earth's crust is made up of huge slabs called tectonic plates, which fit together like a jigsaw puzzle.



## Interesting Facts

- ✓ All continents sit on a tectonic plate. There are 15 different plates on our Earth.
- ✓ There are approximately 1,500 active volcanoes around the world today.
- ✓ The Ring of Fire is a horse-shoe shaped area in the Pacific Ocean where most of the Earth's volcanoes and earthquakes occur.
- ✓ All but three of the world's 25 largest volcanic eruptions of the last 12,000 years have occurred at volcanoes in the Ring of
- ✓ Two volcanoes dominate Hiemay (pronounced Hay-my) the only inhabited island in the Westman Islands, Iceland.

## Can I?

-  **Locate** the position of Iceland in Europe and the Ring of Fire.
-  **Describe** the structure and purpose of volcanoes and the dangers they can pose.
-  **Compare** the physical and human features of Hiemay with our local area.
-  **Explain** how active volcanoes regularly change the landscape.
-  **Summarise** Why people choose to live in Hiemay, Iceland despite the dangers of active volcanos.
-  **Identify & Evaluate** the advantages and disadvantages of living near a volcano (Hiemay in Iceland).