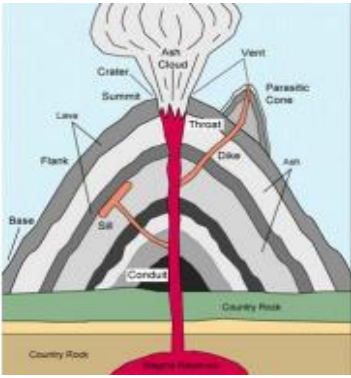
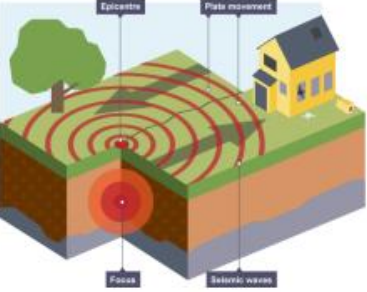


## Knowledge Organiser Year 4– Earthquakes and volcanoes

Key Facts		
How are volcanoes formed?	<ol style="list-style-type: none"> <li>1. Magma rises through cracks or weaknesses in the Earth's crust.</li> <li>2. Pressure builds up inside the Earth.</li> <li>3. When this pressure is released, e.g. as a result of plate movement, magma explodes to the surface causing a volcanic eruption.</li> <li>4. The lava from the eruption cools to form new crust.</li> <li>5. Over time, after several eruptions, the rock builds up and a volcano forms.</li> </ol>	
What causes an earthquake?	An earthquake is the shaking and vibration of the Earth's crust due to movement of the Earth's plates (plate tectonics). Earthquakes can happen along any type of plate boundary. Earthquakes occur when tension is released from inside the crust. Plates do not always move smoothly alongside each other and sometimes get stuck. When this happens pressure builds up. When this pressure is eventually released, an earthquake tends to occur.	
Some of the world's most famous volcanoes?	<ul style="list-style-type: none"> <li>• Mount Vesuvius, near Naples, Italy</li> <li>• Krakatoa, Indonesia</li> <li>• Mount St. Helens, Washington, USA</li> <li>• Mount Tambora, Indonesia</li> <li>• Mauna Loa, Hawaii</li> <li>• Eyjafjallajökull, Iceland</li> </ul>	

Vocabulary	
volcano	An opening in the Earth's crust from which lava, ash, and hot gases flow or are ejected during an eruption. Usually a cone shaped mountain.
magma	Hot fluid or semi-fluid material below or within the earth's crust from which lava and other igneous rock is formed on cooling.
lava	Lava is a liquid, that cools into rock, which is a solid.
crater	A volcanic crater is a roughly circular depression in the ground caused by volcanic activity. It is typically a bowl-shaped feature within which occurs a vent or vents.
Earth's crust	A thin shell on the outside of the Earth.
eruption	When magma is released from a volcano.
earthquake	A sudden violent shaking of the ground, typically causing great destruction, as a result of movements within the earth's crust or volcanic action.
Earth's plates	
plate tectonics	Earth's outer layer is made up of large, moving pieces called plates. All of Earth's land and water sit on these plates. The plates are made of solid rock.
epicentre	Part of the earth's surface directly above the focus of an earthquake.
vibration	
seismic waves	A wave that travels through the Earth.

### What should I already know?

- I live in Huyton, which is a **town** in **Liverpool**.
- The **city** I live in is Liverpool.
- The **country** I live in is called **England**.
- England, which is in the United Kingdom, is in the **continent** of Europe.
- The seven **continents** and five **oceans**.
- The main **climate zones** across the world and the **biomes** that can be found there.

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