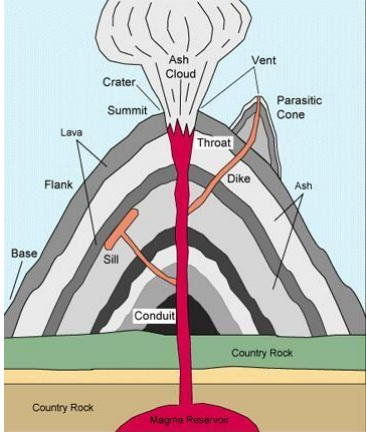
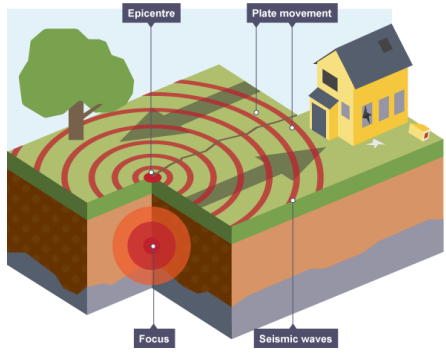


Knowledge Organiser- Year 3

Volcanoes and Earthquakes

Key questions:				
<ul style="list-style-type: none"> • How are volcanoes formed? • How are earthquakes caused? • Where are some of the world's most famous volcanoes? 				
Key facts and figures				
<p>How are volcanoes formed?</p>	<ol style="list-style-type: none"> 1. Magma rises through cracks or weaknesses in the Earth's crust. 2. Pressure builds up inside the Earth. 3. When this pressure is released, e.g. as a result of plate movement, magma explodes to the surface causing a volcanic eruption. 4. The lava from the eruption cools to form new crust. 5. Over time, after several eruptions, the rock builds up and a volcano forms. 			
<p>What causes an earthquake?</p>	<p>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.</p> <p>Earthquakes occur when tension is released from inside the crust. Plates do not always move smoothly alongside each other and sometimes get stuck.</p> <p>When this happens pressure builds up. When this pressure is eventually released, an earthquake tends to occur.</p>			
<p>Where are some of the world's most famous volcanoes?</p>	<ul style="list-style-type: none"> • Mount Vesuvius, near Naples, Italy • Krakatoa, Indonesia • Mount St. Helens, Washington, USA 	<ul style="list-style-type: none"> • Mount Tambora, Indonesia • Mauna Loa, Hawaii • Eyjafjallajökull, Iceland • Mount Pelée, Martinique, Caribbean 		
Did you know...?				
<ul style="list-style-type: none"> • The word volcano originally comes from the name of the Roman god of fire, Vulcan. • The object with the most volcanic activity in our solar system is Io, one of Jupiter's moons. Covered in volcanoes, its surface is constantly changing due to the large amount of volcanic activity. • Volcanic eruptions can send ash high into the air, over 30km (17 miles) above the Earth's surface. • Pumice is a unique volcanic rock (igneous) that can float in water. • Scientists use the different speeds of seismic waves to locate the epicentre (the point on the surface directly above where the earthquake originated) of earthquakes. • The most powerful earthquake ever recorded on Earth was in Valdivia, Chile. Occurring in 1960, it had a magnitude of 9.5. 				
Key vocabulary				
<table style="width: 100%; border: none;"> <tr> <td style="width: 50%; border: none;"> <ul style="list-style-type: none"> • Volcano • Magma • Lava • Crater • Earth's crust • Eruption </td> <td style="width: 50%; border: none;"> <ul style="list-style-type: none"> • Earthquake • Earth's plates • Plate tectonics • Epicentre • Vibration • Seismic waves </td> </tr> </table>			<ul style="list-style-type: none"> • Volcano • Magma • Lava • Crater • Earth's crust • Eruption 	<ul style="list-style-type: none"> • Earthquake • Earth's plates • Plate tectonics • Epicentre • Vibration • Seismic waves
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