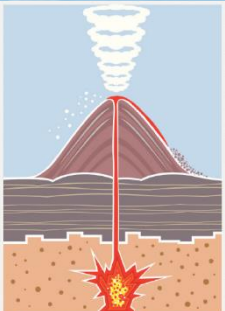

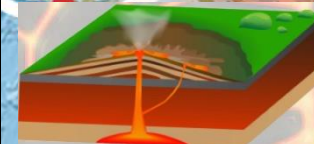
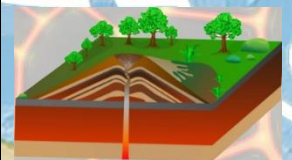


St Lawrence Primary School Knowledge Organiser – Year 4, Autumn 1

Volcanoes

Vocabulary		How a Volcano erupts	Types of Volcanoes
<b>Volcano</b>	A vent (often looking like a mountain) in the surface of the Earth through which magma and associated gases and ash erupt.	<ol style="list-style-type: none"> <li>1. Magma rises through cracks in the volcano</li> <li>2. Pressure builds up inside the volcano</li> <li>3. Magma explodes out of the volcano (lava)</li> <li>4. Lava cools and forms new crust/rock making the volcano bigger</li> </ol> 	<p><b>Active</b> – This means a volcano has erupted in the past 10 000 years.</p> <p><b>Dormant Volcano</b> – This means a volcano has not erupted for a while but could possibly erupt again.</p> <p><b>Extinct Volcano</b> – This means a volcano has not erupted in the past 10 000 years and is not expected to erupt again.</p>
<b>Volcanic eruption</b>	When hot rocks and lava burst from a volcano.		
<b>Ash</b>	Fine particles of rock dust blown from an explosion vent.		
<b>Ashfall</b>	Volcanic ash that has fallen through the air from an eruption cloud.		
<b>Crater</b>	A steep-sided, usually circular depression, formed by either an explosion or collapse at a volcanic vent.	<p>There are 3 ways in which a volcano is formed:</p> <p><b>Composite Volcano</b></p>  <p>They grow very tall and are made from many layers of hardened lava. The lava that flows from these volcanoes cools and hardens before spreading too far.</p>	<p><b>Effect of volcanoes on people and environment</b></p> <p>One in 10 people in the world live within 'danger range' of an active volcano. It is estimated that at least 200,000 persons have lost their lives as a result of volcanic eruptions during the last 500 years. People live on the slopes of volcanoes because of the rich, fertile soil.</p> <p>Volcanoes can have a very serious effect on the lands and people around them when they erupt.</p> <ul style="list-style-type: none"> <li>→ Buildings are destroyed and people are made homeless.</li> <li>→ People are killed.</li> <li>→ Clouds of ash cover plants making them inedible.</li> <li>→ Poisonous gases kill people and animals.</li> <li>→ Dust causes pneumonia and illnesses to the survivors.</li> <li>→ Dark skies, severe winds and heavy rains may follow an eruption for months afterwards.</li> </ul>
<b>Vent</b>	The opening at the earth's surface through which volcanic materials burst out of.	<p><b>Shield Volcano</b></p>  <p>These are built by slow flowing lava. They look like a warrior's shield, hence the name. They are low in height – the lava flows and spreads slowly making them look like small hills.</p>	
<b>Fissures</b>	Elongated features of cracks on the slopes of a volcano.		
<b>Throat</b>	The entrance of a volcano that releases lava.		
<b>Flank</b>	The side of a volcano. The summit of the highest point.		
<b>Lava</b>	Magma which has reached the surface through a volcanic eruption. Streams of liquid rock that flow from a crater.		
<b>Magma Chamber</b>	A large area deep underground filled with magma.		
<b>Magma</b>	Molten rock beneath the surface of the Earth.		
<b>Conduit</b>	An underground passage that magma travels through.		
<b>Ring of Fire</b>	The regions of mountain-building earthquakes and volcanoes which surround the Pacific Ocean - over half the world's volcanoes are located here.	<p><b>Dome Volcanoes</b></p>  <p>These are much smaller than composite volcanoes. The form when ash and rock pile up around the vent of the volcano. This forms a circular/oval shape at the top.</p>	