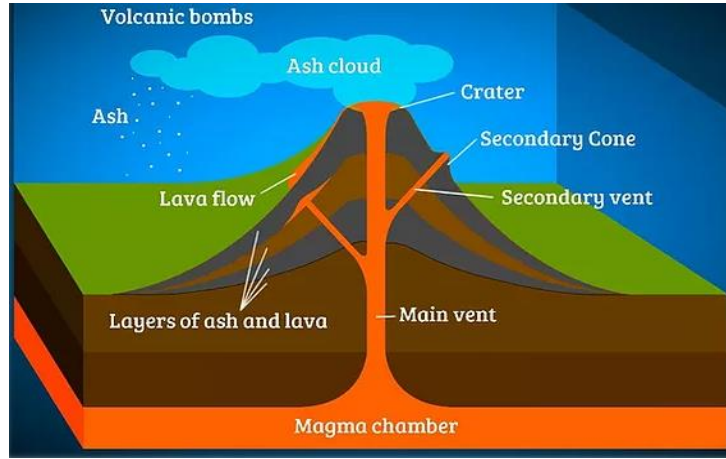
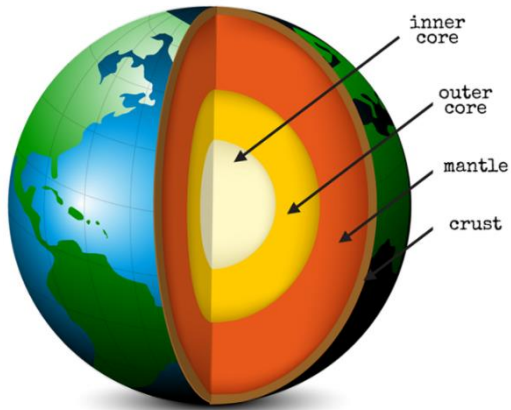


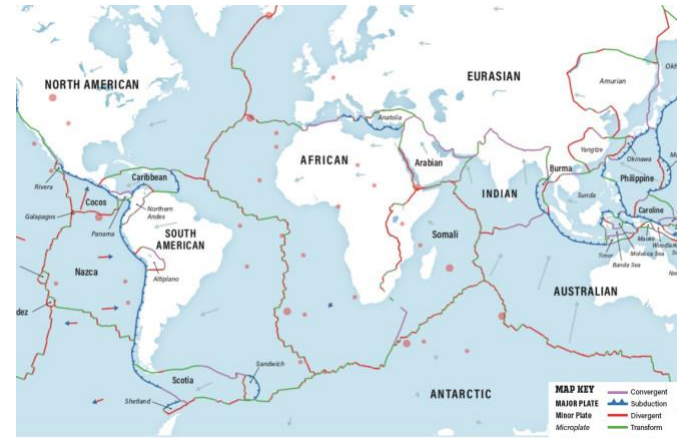
River Bank Primary Knowledge Organiser	Year Four	Autumn 2	Geography – Earthquakes and Volcanoes
Key Vocabulary		Important Facts	
<p>Geography: the study of places and their relationship with people</p> <p>Crust: the layer of rock on the outside of the Earth.</p> <p>Mantle: a thick layer of rock inside the Earth, which becomes molten-rock (magma) as it nears the outer-core.</p> <p>Magma: molten rock and minerals underneath the surface of the Earth.</p> <p>Lava: molten rock and minerals that has erupted through the Earth's surface.</p> <p>Tectonic Plates: large areas of the crust and mantle which 'float' on the liquid magma underneath.</p> <p>Fault: a crack in the surface of the Earth.</p> <p>Volcano: a mountain or hill, typically conical, having a crater or vent through which lava, rock fragments, hot vapour, and gas are or have been erupted from the earth's crust</p> <p>Active volcano: a volcano which has erupted in the last 10,000 years.</p> <p>Dormant volcano: a volcano which has not erupted in the last 10,000 years.</p> <p>Earthquake: a powerful shockwave caused by tectonic plates slipping past each other.</p> <p>Tsunami: a powerful movement of water in the sea caused by an earthquake.</p> <p>Earthquake-resistant: things which have been designed to withstand earthquakes such as building or roads.</p> <p>Richter-Scale: the scale used to measure how powerful an earthquake is.</p>		<ul style="list-style-type: none"> - The Earth is divided into 4 layers: inner-core; outer-core, mantle; and crust. - The crust is an outer layer of rock. - The mantle is an inner layer or rock, which becomes molten as it nears the outer core. - That the Earth's crust and mantle are divided into large tectonic plates which 'float' on the liquid rock underneath. This causes them to move slowly (a few cm a year) - Faults are cracks in the surface of the Earth - Volcanoes are formed on the edge of tectonic plates where there are faults. Magma bursts through the Earth's crust turning into lava and then cools. - The domes of volcanoes are created by lava cooling. - Mount Vesuvius (Italy) and Anak Krakatoa (Indonesia) are examples of volcanoes erupting which has caused effects such as: loss of life; fertile soil; attraction of tourists; heat generation - That earthquakes are caused when tectonic plates slip against each other. These are examples of physical geographical features. - Earthquakes can cause: Tsunamis, loss of life, loss of homes, loss of infrastructure. - Earthquakes are measured using the 'Richter Scale' - People who live in areas with frequent or powerful earthquakes have adapted to this by: building earthquake resistant buildings, earthquake resistant roads and having Tsunami warnings. These are examples of human geographical features. 	

Image Bank

LAYERS OF THE EARTH



Layers of a Volcano



Tectonic Plate



Mount Vesuvius



Arak Krakatoa (Indonesia)

Eathquake Resistance

<https://www.re-thinkingthefuture.com/fresh-perspectives/a1751-10-earthquake-resistant-building-techniques-used-by-architects-around-the-world/>

Earthquake-resistant building designs

<https://www.youtube.com/watch?v=9N8iQ9Ch8nw>

How earthquake resistant buildings work