

Kingsley CP Knowledge Organiser



Geography focus

Volcanoes and Earthquakes

Year 4

Spring Term

What? (Key knowledge)

Earth's Layers

The Earth is made of 4 layers, starting at the centre is the inner core, then the outer core, followed by the mantle and around the outside is the crust.

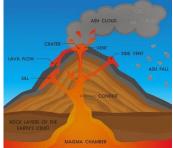
Volcanoes		
Volcano	Magma rises through cracks or	
formation	weaknesses in the Earth's crust, it then	
	explodes to the surface causing a	
	volcanic eruption. The lava from the	
	eruption cools to form new crust and	
	over time, after several eruptions, the	
	rock builds up and a volcano forms.	
Eruptions	Volcanic eruptions occur when magma	
	from the earth's core rises to the	
	surface.	
Mount V <i>e</i> -	Mount Vesuvius is an active volcano	
suvius	near Naples that is famous for its	
	massive eruption in 79AD that destroyed	
	the Roman city Pompeii.	
Mount St	This is an active stratovolcano in	
Helens	Washington, USA It's built up of layers	
	of lava and ash.	

Earthquakes		
Earthquake	An earthquake is the shaking and	
Causation	vibration of the Earth's crust due to	
	movement of the Earth's plates. Plates	
	don't always move smoothly along each	
	other and pressure builds up. Eventually	
	this pressure is released causing an	
	earthquake.	
Tectonic	Earth's crust is made up of large,	
plates	moving pieces called plates. All of	
	Earth's land and water sit on these	
	plates made of solid rock.	
	Earthquakes and volcanoes occur at plate	
	boundaries.	
Measuring	Earthquakes have different magnitudes	
Earthquakes	which are measured from the initial	
	seismic wave. Scientists use the Richter	
	scale to measure earthquake magnitude.	
San	The boundary between the Pacific plate	
Andreas	and North American plate that runs	
Fault	through California. It is roughly 1200km	

long.

What? (Key Vocabulary)		
Lava	Hot, molten rock erupted from a	
	volcano.	
Magma	Hot fluid below the Earth's	
	crust from which lava is formed	
	on cooling	
Active	A volcano that has erupted in	
	the last 10,000 years	
Dormant	An active volcano that is not	
	erupting but could erupt.	
Extinct	A volcano that has not erupted	
	in the last 10,000 years.	
Tectonic	Pieces of the Earth's crust that	
plates	move. Earthquakes & volcanoes	
	occur at their boundaries.	
Richter scale	Scale used to measure the size	
	of earthquakes.	

Diagrams and symbols



This diagram shows the inside of a volcano when it is erupting.



This diagram shows the location of Earth's tectonic plates.

Possible experiences

- Create a model volcano that erupts.
- Use google earth to investigate the locations of Earth's tectonic plates