Year 4 Knowledge Organiser – What lies beneath the Earth?



What will we be learning?

- What lies beneath the Earth?
- What is inside a volcano?
- What can I find out about real volcanoes?
- How do earthquakes affect people and places?
- What could you do if an earthquake happened?
- What would it be like to live near a volcano?

Glossary

dormant: a dormant volcano is a volcano, like Kilimanjaro, that has not erupted for a long time

epicentre: where an earthquake starts and is felt

most strongly

tsunami: a huge, powerful wave caused by an

earthquake

Key knowledge

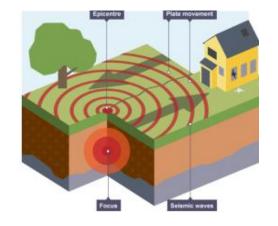
The Earth is made up of layers. The top layer, the Earth's crust, consists of large slabs of rocks, called plates.

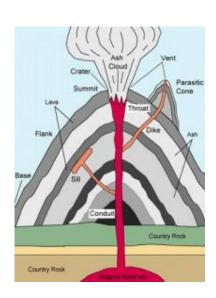
The plates move as the hot mantle flows beneath them. The movement of the plates causes earthquakes and leads to volcanoes erupting.

Earthquakes are measured on the Richter scale. They can cause devastating damage to buildings, roads and land.

When volcanoes erupt they spew out lava. This is a very hot liquid that destroy anything in its path.

Date		
AD 79		
26 August,		
1883		
April 18,		
1906		
May 22,		
1960		
May 18,		
1980		
Jan 12,		
2010		





Key Facts	
How are	1. Magma rises through cracks or weaknesses in the Earth's crust.
volcanoes	2. Pressure builds up inside the Earth.
formed?	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.
What causes an	An earthquake is the shaking and vibration of the Earth's crust due to movement of the Earth's
earthquake?	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

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each other and sometimes get stuck. When this happens, pressure builds up. When this pressure is eventually released, an earthquake tends to occur Volcanoes.

