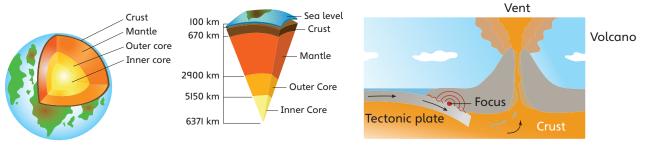
Knowledge organiser



Layers of the Earth

Earthquakes occur when plates jolt forward after getting stuck Volcanoes erupt when magma rises to the surface



A shield volcano



A stratovolcano

Structure of the Earth		
Crust	Solid rock, 0–70 km thick; continental (granite) and oceanic	
	(basalt); made up of tectonic plates	
Mantle	Solid rock, approx. 2,900 km thick	
Outer core	Liquid metal: iron and nickel; approx. 4,500 °C	
Inner core	Solid metal: iron and nickel; approx. 6,000 °C	

Rocks and metals		
Granite	A type of rock formed by cooled magma; granite is the most	
	common rock on the continental crust	
Basalt	A type of rock formed by cooled magma; basalt is the most	
	common rock on the oceanic crust	
Iron	A type of metal; iron is the most common metal on Earth	
Nickel	A type of metal	

Vocabulary		
Epicentre	The point on the Earth's surface directly above the focus. An earthquake is felt most strongly at the epicentre.	
Focus	The point deep underground where an earthquake starts	
Fold mountain	A mountain created when tectonic plates collide and cause the plates to wrinkle upwards	
Friction	A force between two things that are trying to move past each other	
Lava	Magma that has reached the Earth's surface	
Magma	Molten (melted) rock beneath the Earth's surface	
Moment magnitude scale	A scale from I–I0 to measure the strength of earthquakes	
Pressure	A physical force created when solid things push against each other, or when gasses build up inside something and push against the sides	
Seismic waves	Waves of energy created by an earthquake that travel through the Earth	
Tectonic plates	Large sections, or plates, that make up the surface of the Earth	

Volcanoes		
Shield	Largest volcanoes on Earth; wide base, low height	
volcano	Example: Kilauea (Hawaii) and Erta Ale (Ethiopia)	
Stratovolcano	Most of the world's volcanoes are stratovolcanoes; high with steep sides	
	Example: Mount Vesuvius (Italy) and Barðarbunga (Iceland)	
Active	A volcano that has erupted at least once in the last	
volcano	10,000 years and still shows some signs of activity, such as movement of the plate beneath it, or gasses being released into the air	
Dormant	A volcano that has erupted in the last 10,000 years but is	
volcano	not showing signs of activity; however, it is expected to	
	erupt again at some point	
Extinct	A volcano that has not erupted in the last 10,000 years and	
volcano	shows no signs of activity	