

					Revised for homework? (1)	Revised for homework? (2)	Revised in lesson?
Distribution of earthquakes and volcanoes.							
Structure of Earth.							
Tectonic plates.							
Convection currents.							
Plate margins: constructive, destructive, collision, conservative.							
Geographical skills.							
Coordinates	OS maps	Grid references	Distance	Percentages	<u>Averages</u>	Writing tips	Revision tips
				<b>%</b>			Sec.



Distribution of Earthquakes and Volcanoes			
Knowledge	Revision Questions		
Earthquakes happen when the ground suddenly, intensely shakes.	What is an earthquake?		
Volcanoes are places where lava erupts from the ground.	What is a volcano?		
Volcanic eruptions are the times when lava is erupting from the ground.	What is a volcanic eruption?		
Most earthquakes and volcanic eruptions are distributed on <b>belts</b> .	Describe the distribution of earthquakes		
Some of these belts are along the edges of continents. For example, the Pacific Ring of Fire is on the west coast of North America and South America.	and voicances.		
Some of these belts are on the floor of the ocean. For example, the Mid-Atlantic Ridge is on the floor of the middle of the Atlantic Ocean.			
However, some earthquakes and volcanoes are far from belts. For example, the Hawaiian volcanoes are in the middle of the Pacific Ocean, far from the nearest belt.			







Structure of Earth					
Knowledge				Revision Questions	
	Crust Mantie Outer Core Inner Core			How many layers is Earth made of? What are the names of each layer? What is the name of the layer in the centre? What is the name of the layer on the edge?	
Crust	Mantle	Outer core	Inner core		
	500 – 2000 °C.	4000 – 6000 °C.	Up to 7000 °C.	What is the temperature of each layer?	
Made of solid rock.	Made of magma (semi-melted rock).	Made of liquid iron and nickel.	Made of solid iron and nickel.	What material is each layer made of?	
5 – 100 km thick.	2900 km thick.	2300 km thick.	1200 km thick.	How thick is each layer?	



Tectonic Plates (1 / 2)			
Knowledge	Revision Questions		
Earth's crust is split into pieces called <b>tectonic plates</b> .	What is a tectonic plate?		
Tectonic plates float on top of the magma in the mantle.	What do tectonic plates float on?		
Each plate has a name. Often the name is similar to the continent or ocean on top of it.	Tectonic plates names quiz		
Plate margins are where 2 tectonic plates meet each other.	What is a plate margin?		
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Tectonic Plates (2 / 2)			
Know	Revision Questions		
Tectonic plates can be <b>continental</b> or <b>oceanic</b> Continental plates are mostly land. Oceanic pl	What are the 2 types of tectonic plate?		
Continental	Oceanic		
25 – 70 km thick.	5 – 10 km thick.	Which type of tectonic plate is thicker?	
Less dense (less heavy).	More dense (more heavy).	Which type of tectonic plate is denser?	
Continer			



Convection Currents (1 / 2)				
Knowledge	Revision Questions			
Tectonic plates move because of <b>convection currents</b> of magma in the mantle.	Why do tectonic plates move?			
1. Magma in the mantle is heated up by the core.	What happens to magma near the core?			
2. This means that it rises through the mantle, towards the crust.	Where will magma near the core move?			
3. Eventually, it reaches the crust, so cannot rise any further.				
4. This means that the magma moves sideways, pulling the tectonic plates with it.	why does magma move sideways underneath tectonic plates?			
5. Now it is far from the core, the magma cools down.	What happens to magma far from the core?			
6. This means that it sinks through the mantle, towards the core.	What happens to magma far from the core?			
7. Eventually, it reaches the core and is heated up again.	Where will magma far from the core move?			
8. Therefore, the process repeats and the tectonic plates keep moving.	Why do tectonic plates continually move?			







Plate Margins (1 / 3)				
Knowledge	Revision Questions			
Plate margins are where 2 tectonic plates meet each other. There are 4 types of margin.	What is a plate margin?			
<ul> <li>Constructive Margins</li> <li>1. Convection currents cause 2 oceanic plates to move away from each other.</li> <li>2. Magma rises from the mantle between the plates, meeting the cool sea water above.</li> <li>3. The magma solidifies into solid rock. This forms new crust and sometimes islands.</li> <li>4. Some magma melts through the new, thin crust as volcanic eruptions.</li> <li>• There is fiction between the jagged edges of the moving plates, building up pressure.</li> <li>• Eventually, the plates suddenly slip, releasing the pressure as an earthquake.</li> </ul>	'Only earthquakes happen at constructive margins'. True or false? What types of tectonic plate meet at constructive plate margins? What direction do they move? Why do they move? Explain how earthquakes and volcanic eruptions happen at constructive margins.			
<ul> <li>Destructive Margins</li> <li>1. Convection currents cause a continental and oceanic plate to move towards each other.</li> <li>2. The continental plate is less dense, so its edge folds up. This forms a belt of mountains.</li> <li>3. The oceanic plate is more dense, so it sinks into the mantle. This is called subduction.</li> <li>4. The edge of the oceanic plate melts in the mantle. This forms, fresh, hot magma.</li> <li>5. The fresh, hot magma rises quickly and erupts from the mountains.</li> <li>• There is fiction between the jagged edges of the moving plates, building up pressure.</li> <li>• Eventually, the plates suddenly slip, releasing the pressure as an earthquake.</li> </ul>	<ul> <li>'Only volcanic eruptions happen at destructive margins'. True or false?</li> <li>What types of tectonic plate meet at destructive plate margins? What direction do they move? Why do they move?</li> <li>Explain how earthquakes and volcanic eruptions happen at destructive margins.</li> </ul>			



Plate Margins (2 / 3)			
Knowledge	Revision Questions		
Plate margins are where 2 tectonic plates meet each other. There are 4 types of margin.	What is a plate margin?		
<ul> <li>Collision Margins</li> <li>1. Convection currents cause 2 continental plates to move towards each other.</li> <li>2. Both plates are equally dense. Neither is very dense.</li> <li>3. This means that they fold up. This forms a belt of mountains.</li> <li>There is fiction between the jagged edges of the moving plates, building up pressure.</li> <li>Eventually, the plates suddenly slip, releasing the pressure as an earthquake.</li> </ul>	<ul> <li>'Only earthquakes happen at collision margins'. True or false?</li> <li>What types of tectonic plate meet at collision plate margins? What direction do they move? Why do they move?</li> <li>Explain how earthquakes happen at constructive margins.</li> </ul>		
<ol> <li>Conservative Margins</li> <li>Convection currents cause a 2 tectonic plates to move past each other.</li> <li>The plates might move in opposite directions or the same direction at different speeds.</li> <li>There is fiction between the jagged edges of the moving plates, building up pressure.</li> <li>Eventually, the plates suddenly slip, releasing the pressure as an earthquake.</li> </ol>	<ul> <li>'Only earthquakes happen at collision margins'. True or false?</li> <li>What types of tectonic plate meet at collision plate margins? What direction do they move? Why do they move?</li> <li>Explain how earthquakes happen at constructive margins.</li> </ul>		



