Topic/Objectives: 2-3 Plate Tectonics; (1) Explain the Theory of Plate Tectonics by describing the processes involved, the geologic features used as supporting evidence,		Name:			
		Date:			
movement. (2) Use the deve	orth's crust that have occurred as a result of crustal elopment of the Theory of Plate Tectonics to discuss how evolve into a unified theory.	Period:			
	trole did the movement of Earth's tectonic plays in shap	 ping our oceans?			
•		0			
Questions:	Notes:				
	Plate tectonics helps explain Alfred Wegner's				
	(1912).				
	 He suggested that the continent used to be a single supercontinent 				
	() that began up 180) million years ago.			
	 The main features of plate tectonics: 	 The main features of plate tectonics: 			
	 The Earth's surface is covered by a 	series of			
	• The ocean floors are constantly mo				
	and sinking at t	he and being			
	 currents beneath the plates assist movement.				
		e drives these currents.			
	non the mand	e drives triese currents.			
	Evidence for Plate Tectonics				
	Mid-Oceanic Ridges				
	 The mid-oceanic ridges are a chain of submarine volcanic mountains that rise from the				
				called	.
				。 accumulates; th	nerefore being thicker away from the
	ridges, means that the crust furthe	er from the ridge is			
	 Geomagnetic Anomalies: 				
	 At random intervals, the Earth 	's magnetic field			
		a records the orientation of Earth's			
	magnetic field at the time the				
	 Studies of the seafloor have re 				
	alternating magnetization para	allel to the mid-oceanic ridges.			
	Formation of the Seafloor				
	Huge slabs of				
	mid-ocean ridges which create cracks in the crust called <u>rifts</u> .				
	When a occurs, it releases some of the pressure on the				
	underlying mantle.	material to melt and rise			
	up through the rift.	nilaterial to melt and rise			
	 When this molten material reaches Ear 	rth's surface it cools and solidifies to			
		form new			

	to create new sea floor is called
	The lithosphere is broken into a number of plates called
	or tectonic plates.
	A plate can contain continental crust,, or
	both.
	Mid-ocean ridges form the edges of many plates.
	The plates spread from per year.
	As new lithosphere is created, old lithosphere is
	Lithosphere is destroyed at the when two plates collide and
	one plate dips below the other plate.
	When an oceanic plate collides with a continent, it is the
	oceanic plate that descends into the mantle.
	When oceanic and continental plates collide, continental
	develop behind the trench.
	can form when two oceanic plates collide.
	When two continental plates collide, a trench does not form. The plates push
	against each other and fold which forms
	The Himalayas formed when India collided with the rest of Asia.
	form when two plates slide past each other
	and they do not create or destroy lithosphere.
	Friction prevents the plates from sliding smoothly. The plates lock together until
	stress builds up enough to cause a slip. The slip of the plates causes an
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	Scientists hypothesize that the plates move mainly because of ".
	During slab pull, old, cold, and dense lithosphere sinks into the mantle and pulls the rest of the plate behind it.
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Summary:	

This process by which the sea floor moves away from the mid-ocean ridges