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Class:

Grade 8 SCIENCE – GUIDED NOTES

Page Number	Title/Sub-	Dynamic Surface Lesson: 1- Earth's Moving Surface Pages: 91 - 95 Guided Questions
91	Title Plate Tectonics	When did scientist develop a theory to explain many of the features on the Earth's surface?
		What is the theory of plate tectonics?
92	What is a Tectonic Plate?	Draw a model of the 4 main layers of the Earth below. Label your model with the following terms. Crust, mantle, liquid outer core, solid inner core (Use Figure 2 for guidance)
).		What is the outermost layer of the Earth called?
		What makes up the lithosphere?
,		Is the lithosphere rigid or malleable?
		Do the rock in the lithosphere bend easily?
		What is the athenosphgere?
		Can this region (athenosphere) bend easily?

	Part	Description	
	Crust		
	Lithosphere		
	Tectonic plates		
	Asthenosphere		
Major Tectonic Plates		plates have scientist identified?	
	What is the name of the la	argest tectome plate:	
	What is the name of the is	argest rectonic plate:	
		e reading of a tectonic plate this is completely c	overed by the ocean.
			overed by the ocean.
		e reading of a tectonic plate this is completely c	overed by the ocean.
	Give an example from the	e reading of a tectonic plate this is completely control of a tectonic plate this is completely control of a tectonic plates.	overed by the ocean.
	Cive an example from the Locate the seven larges 1	t tectonic plates. 5. 6.	overed by the ocean.
	Cive an example from the Locate the seven larges 1 2 3	t tectonic plates. 5. 6. 7.	overed by the ocean.
	Cive an example from the Locate the seven larges 1	t tectonic plates. 5. 6. 7.	overed by the ocean.
	Cive an example from the Locate the seven larges 1 2 3	t tectonic plates. 5. 6. 7.	overed by the ocean.
Plate Boundaries	Cive an example from the Locate the seven larges 1 2 3 4	t tectonic plates. 5. 6. 7.	overed by the ocean.
	Cocate the seven larges 1 2 3 4 How do scientist describe	t tectonic plates. 5. 6. 7.	overed by the ocean.

		Type of Boundary	of plate boundaries. Circle the bound occurs. Description	dary
93	Divergent Boundaries	What is a divergent boundar	ry?	
		Give an example from the r	eading of a divergent boundary.	
		Look at Figure 4. Draw a marrows to show the motion	nodel of a <i>divergent boundary</i> below. Labe of the plates.	l your drawing and use
93	Convergent Boundaries	What is a convergent bound	lary?	
		What is subduction?		
		Give an example from the r	reading of a plate that is being "subducted" at	a convergent boundary.

		Look at Figure 4. Draw a model of a <i>convergent boundary</i> below. Label your drawing and use arrows to show the motion of the plates.
93		What are transform boundaries?
	Transform Boundaries	
		Give an example of a transform boundary fromt the reading.
		Look at Figure 4. Draw a model of a <i>transform boundary</i> below. Label your drawing and use arrows to show the motion of the plates.
94	Measuring Plate Movement	During what time period did scientist and engineers develop technologies to measure how fat the plates on the Earth were moving?
		How fast is North America separating from Europe?
		What is GPS (Global Positioning System)?
		How had GPS helped scientist track tectonic plate movement?
		North America and Europe were once a part of a larger continent called what?

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95	Why do Tectonic Plates Move?	What are the three types of boundaries that can form from plate movement?
	riates Move:	2
h		3
		What causes these plates to move?
95	Convection	What is density?
	·	What happens to a fluids molecules when you heat it?
		What happens to a fluids density when it is heated?
		what happens to a nuids density when it is heated:
	·	What is convection?
		Where does convection occur in the Earth?
		Draw Figure 7 below. Label your drawing with the following terms (Mantle, Outer Core, Inner Core, and Convection Currents. Be sure to include arrows to show the motion of the
		convection currents in the Mantle.
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