1	What direction does heat move?	1	From warmer to cooler
2	What is density?	2	Density is a measure of mass / volume
3	What causes the movement of plate	3	Heat rises from the core to make the
-	tectonics?	-	asthenosphere ductile, viscous, and less
			dense. As the magma rises to the crust it
			cools. The process occurs because of
			convection currents.
4	What is the main source of heat that	4	Mainly the core but also the mantle. The
	causes convection currents to occur?		core heats the mantle.
5	What causes mid-ocean ridges?	5	Mid-ocean ridges are the result of rising
	5		convection currents in the mantle.
6	What is formed at mid-ocean ridges?	6	New oceanic crust. This is where the
	5		youngest rocks on Earth are found. This is
			seafloor spreading.
7	On what layer of the earth are plate	7	They are on the lithosphere. The
	tectonics?		lithosphere floats on the asthenosphere.
8	What is sea-floor spreading?	8	The process by which molten material adds
			new crust to the ocean floor.
9	In what direction do divergent plate	9	Away from each other
	boundaries move?		
10	What kinds of features are formed at	10	Seafloor spreading, valley rifts, earthquakes
	divergent plate boundaries?		
11	In what direction do convergent plate	11	Toward one another
	boundaries move?		
12	What kinds of features do convergent	12	Mountains, trenches, volcanoes
	plate boundaries form?		
13	What happens at an oceanic-oceanic plate	13	Volcanoes are formed, earthquakes
	boundary?		
14	What happens at a continental –	14	Mountains are formed, earthquakes
	continental plate boundary?		
15	What happens at an oceanic-continental	15	Trench, subduction, and volcanic arc,
	plate boundary?		earthquakes
16	What happens at a transform boundary?	16	earthquakes
17	An example of a well-known transform	17	The San Andreas Fault
	boundary is		
18	Why does oceanic crust sink beneath the	18	Because oceanic crust is more dense than
	continental crust?		continental crust
19	Where do earthquakes most often occur?	19	Along plate boundaries
20	What is a fault?	20	A break in Earth's crust along which rocks
			move

r			
21	What is the theory of plate tectonics?	21	It states that the pieces of Earth's
			lithosphere are in constant motion.
22	Where is the Ring of Fire?	22	It is along the edges of the Pacific Ocean
			and is located at the boundary of deep and
			shallow water.
23	How far do plates move a year?	23	About as fast as your fingernail grows.
			Around 3 cms / year.
24	How do the three plate boundaries	24	1. Convergent – collide
	respond?		2. Divergent – divide
			3. Transform - slide
25	How are mountains formed?	25	When two plates collide along convergent
			plate boundaries and continental crust lifts
26	How are volcanoes formed?	26	When oceanic crust subducts under
			continental crust at convergent boundaries.
			The oceanic crust melts and forms
			volcanoes.
27	What is subduction?	27	When the denser plate is pushed under the
			less dense plate.
28	What are five pieces of evidence Wegener	28	1. The continents fit together like a
	used to defend his theory of plate		jigsaw puzzle
	tectonics?		2. Fossils found in unexpected
			locations – freshwater reptiles
			found in South America and
			Africa
			3. Climate – fern fossils found in
			Antarctica
			4. Mountain Ranges
			5
20	What are batenets?	20	5. Rock Samples
29	What are hotspots?	29	Volcanic regions that are created by hot
			plumes of magma. They are not found near
			a plate boundary.
30	What is a volcanic arc?	30	A chain of volcanoes that were formed by
			subduction.