Name	Date	Block:

Layers of the Earth



Crustal Facts:

- 1. Crust is either Oceanic (rock:
) or Continental (rock:
). The density of the continental crust is _______g/cm³. The density of oceanic crust is _______g/cm³.
- 2. The densest crust is _______. It is thinner than ______ crust.
- 3. The depth of the crust ranges from ______ to _____ km.
- 4. The Crust is in a ______ state (solid or liquid).

Mantle Facts:

- 1. The uppermost part of the mantle that has liquid and plastic properties is called the
- 2. The density of the mantle ranges between _____ g/cm³ to _____ g/cm³
- The depth of the mantle from the upper asthenosphere to the bottom of the mantle is ______ km.
- 4. The actual temperature at the 2000 km depth is _____
- 5. Pressure in the mantle (increases, decreases, or remains the same) as depth increases.

Outer Core Facts:					
1.	The outer core is inferred to be made up of? and				
2.	The distance from the top of the outer core to the bottom iskm.				
3.	3. The actual temperature is near 6000 degrees Celsius. The melting point of iron is				
	(greater of, or less than) the actual temperature. This means the outer core is made up of				
	(solid, liquid, or gaseous) iron.				
4.	The pressure of the outer core is between and millions of				
	atmospheres.				
5.	The density of the outer core is between and g/cm ³ .				

Inne	r Core Facts:		
1.	The depth of the inner core from its top to center is approximately km		
2.	The actual temperature of the inner core is approximately °C.		
3.	The dotted melting curve line is (above or below	v) the actual temper	rature. Therefore
	the rock in the inner core is in the (solid, liquid,	or gaseous) state.	
4.	The actual elements in the inner core are	and	This
	is inferred from meteorite studies.		
5.	The density of the inner core is between	and	g/cm ³ .
	The management the second of the Fourth is	millions of atmospheres.	

- 1) State the **relationship for pressure** as you travel towards Earth's inner core (State your answer in an 'As' statement for any relationship questions).
- 2) State the relationship for density as you travel from the crust to the inner core.
- 3) State the relationship for temperature as you travel from the lithosphere to the inner core.
- 4) The layer of the earth that is inferred to be in a plastic (not *exactly* like a free flowing LIQUID) state is called the ______. This is because the interior (actual) temperature at these depths is above/below/at (circle one) the melting curve.
- 5) Using pg. 1 of your ESRT, list the following elements that compose the lithosphere by volume.
 - a. Silicon ______ c. Aluminum _____ e. Calcium _____ g. Magnesium _____
 - b. Oxygen_____ d. Iron_____ f. Sodium_____h. Potassium_____