Earth Layer and Plate Tectonic Unit Test Study Guide

1. List the Layers of the Earth from the innermost to outermost layer & tell what each layer is made of.
2. Which Layer is Thickest and which layer is thinnest?
3. Which Layer is most dense and which layer is least dense?
4. What do convection Currents in the Mantle Cause?
5. What are the 2 main Reasons of Earth's Magnetic Field?
6. Where are tectonic plates located?
7. Where are landforms created?
8. Complete the chart by drawing arrows for directions, naming all the landforms created by each type of boundary and labeling if crust is created, destroyed or neither.

Boundary Type	Direction plates move	Landforms Created	Creates, Destroys, or Neither
Divergent		1. 2. 3	
Transform		1.	
Convergent Collision		1.	
Convergent Subduction		1. 2. 3.	

9. What is the difference between Convergent Collision and Convergent Subduction?
10. Island Arcs form when what two types of plate meet?
11. Coastal Mountains form when what two types of plate meet?
12. What is a seismologist? **A scientist who studies how energy travels through Earth's layers.**
13. What are the 3 types of seismic waves? **Primary (P waves), Secondary (S Waves), and Surface**
14. At what rate do tectonic plates move? **2centimeters to one inch.**
15. Divergent boundaries also known as sea floor spreading occurs at what type of plates?
16. Know how to read a plate boundary diagram/illustration and label what is happening at each point in the picture.
17. Earthquakes occur because of a release in _____.
18. What is Continental Drift?
19. The entire planet is surrounded by a thin layer of gas we call _____.
20. Earth's surface is primarily composed of what material?