**The Earths Internal Structure**

**Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

***Go to:*** *www.learner.org/interactives/dynamicearth*

**Scroll down and click "Start your Exploration with...."**

1. Fill in the chart below by rolling your mouse over the diagram on the screen.

**a) The Earth's Interior**

|  |  |
| --- | --- |
| **Layers** | **Characteristics** |
| **Crust** |  |
| **Mantle** |  |
| **Outer Core** |  |
| **Inner Core** |  |

**b) Cross Section of Crust and Mantle**

|  |  |
| --- | --- |
| **Layers** | **Characteristics** |
| **Lithosphere** |  |
| **Asthenosphere** |  |

**Click on Next Chapter: Plate Tectonics. Follow the instructions given on the screen and then click on "How do we know this?"**

a) Who is Alfred Wegener and what discovery did he make in the early 1900's?

b) What other 2 discoveries did Alfred Wegener make?

c) In 1915 Wegener published "The Origin of Continents and Oceans". In this book he explained his "Continental Drift Theory". What does the theory suggest?

d) Today's modern theory is plate tectonics theory. Outline this theory.

**Scroll down and click on "Continents Over Time" click "Begin" and complete the activity.**

a) What is the name of the future "super continent"?

**Click on "Plate Boundaries".**

a) Describe the difference between continental crust and oceanic crust.

**Complete the table below related to plate boundaries. (See next page)**

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Convergent Boundaries** | **Divergent Boundaries** | **Transform Boundaries** |
| **Definition** |  |  |  |
| **Diagram** |  |  |  |
| **Examples** |  |  |  |

**Scroll down and complete the plate boundaries challenge. When you have finished, move on to "Slip, Slide and Collide". Choose "See what happens at different plate boundaries".**

**Use the interactive map to define the following terms (scroll mouse over each term):**

a) Volcanic Arc

b) Trench

c) Magma

d) Volcano

e) Subduction Zone

f) Mountain

g) Mountain Range

h) Boundary

**Scroll to bottom of page and choose "NEXT".**

**Click on "START" and view the interactive.**

**Then define the following terms:**

a) Seafloor Spreading

b) Mid Ocean Ridge

c) Fault

d) Earthquake

e) Strike Slip Fault

**Finally, scroll down and take the "Plate Interactions Challenge".**

**\*\*\* Make sure you do this last part, there is a POP QUIZ coming up at the end of class on this section!**