**Plate Tectonics Guided Notes**

**What is plate tectonics?**

Plate tectonics is the \_\_\_\_\_\_\_\_\_\_\_ that the earth’s crust in broken into \_\_\_\_\_\_\_\_\_\_\_ that \_\_\_\_\_\_\_\_\_\_\_\_\_ on the upper part of the \_\_\_\_\_\_\_\_\_\_.

**What causes plate tectonics?** Sketch a picture in the box.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_ in the mantle.

Continental Drift is the \_\_\_\_\_\_\_\_ that the continents were a

single landmass that \_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_ and

eventually moved into the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ they are in today.

**Quick review**: Cover the top of your notes and write a definition for each of the following words:

Plate tectonics-\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Continental Drift- \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Who?!?** \_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ is the scientist who came up with the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

**What?!?** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ is the name of the first single \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ created by \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ .

**Evidence for Continental Drift:**

1. The Earth’s continents look like \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
2. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
3. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ ranges on different continents appear to \_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_.
4. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_-of one continent match those along another \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

**Types of Crust:** (draw a sketch in each box)

Oceanic Crust (\_\_\_\_\_\_\_\_\_) Continental Crust (\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_)

Terms to know:

Mid-Ocean Ridge- \_\_\_\_\_\_\_\_-floor feature resembling a \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Rift valley- \_\_\_\_\_\_\_\_\_\_\_\_ area between 2 ridges that is formed by \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ plates.

Seafloor spreading- process that forms new \_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_ (happens at \_\_\_\_\_\_\_ - \_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_. New seafloor is close to the \_\_\_\_\_\_-\_\_\_\_\_\_\_\_\_\_ ridge and older floor is further away. (\_\_\_\_\_!) ☺

Subduction Zone- a place where old \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ crust is forced back down into an \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_ and back into the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_. Many \_\_\_\_\_\_\_\_\_\_\_\_\_ and \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ are found here.

Trench-a deep \_\_\_\_\_\_\_\_\_\_\_ canyon

Evidence of Sea Floor Spreading:

\* \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \* \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Effects of Plate Tectonics:

1. Earthquakes
2. Mountain Building-when 2 \_\_\_\_\_\_\_\_\_\_\_\_ collide the continental plate might \_\_\_\_\_\_\_\_\_\_\_\_\_\_ and rise upwards, forming \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
3. Volcanoes.

* At \_\_\_\_\_\_\_\_\_\_\_\_\_ zones, oceanic plates dip back down into the hot \_\_\_\_\_\_\_\_.
* Heat from the \_\_\_\_\_\_\_\_melts the tocks in the plate, forming \_\_\_\_\_\_\_\_\_\_\_\_\_\_.
* Magma collects in underground \_\_\_\_\_\_\_\_\_\_\_\_, called magma \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
* Hotter than the surrounding \_\_\_\_\_\_\_\_\_, the magma rises to the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

Hot Spot-place where \_\_\_\_\_\_\_\_\_\_\_ reaches the surface of a \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ plate. The \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ islands were formed this way.

THE END (for now) ☺