Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Block \_\_\_\_ Binder Page # \_\_\_\_

**Notes on: PLATE TECTONICS**

**Plate Tectonics:**  \*Theory which says that the Lithosphere is divided into crustal

P\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ and that E\_\_\_\_\_\_\_\_\_\_ plate moves on the P\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ asthenosphere.

\*These plates C\_\_\_\_\_\_\_\_\_\_\_ with, slide U\_\_\_\_\_\_\_\_\_, or move

 P\_\_\_\_\_\_\_\_\_ adjacent plates.

 \*Caused by C\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ of heated

 M\_\_\_\_\_\_\_\_\_\_\_\_\_\_ rising from the C\_\_\_\_\_\_\_\_\_\_\_\_\_ and

 cooling magma S\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ back down.

**Alfred Wegener:**  \*He noticed that the coastlines of A\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ and South

 A\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ looked like they might fit together.

\*He discovered evidence of the same plant and animal

 F\_\_\_\_\_\_\_\_\_\_\_\_ along the coasts of these continents.

\*He also noticed that geologic F\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, like

 mountain R\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ on the two continents also

 matched U\_\_\_\_.

\*Wegener called the original landmass “P\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

**Evidence for Plate Tectonics:**

\*A\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ and South A\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ fit like

 puzzle P\_\_\_\_\_\_\_\_\_\_\_\_\_\_

 \*Similar R\_\_\_\_\_\_\_\_\_\_\_, Fossils, and M\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ in

 different Continents.

**Evidence for Plate Tectonics:**

\*P\_\_\_\_\_\_\_\_\_\_\_\_ Boundaries and M\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

 Earthquakes, Tsunamis and V\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ occur

 along Plate B\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

 \*With Satellite GPS we can directly observe plate movement. Plates

 move about \_\_\_\_ Inch per year.

**Evidence for Plate Tectonics:**

\*Sea-Floor S\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ at the mid-ocean

 R\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

 \*Paleomagnetism: Earth’s magnetic P\_\_\_\_\_\_\_\_\_\_\_ switches every

\_\_\_\_\_\_\_\_\_\_\_\_ to 1 million years. This leaves evidence in the new R\_\_\_\_\_\_\_\_\_\_\_\_\_ at mid-ocean R\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

 \*Mid-Atlantic Ridge has a Z\_\_\_\_\_\_\_\_\_\_\_\_\_ striped pattern of

 P\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

**Types of Plate Boundaries:**

**Divergent Boundary**

 \*To Diverge means to M\_\_\_\_\_\_\_\_\_\_\_ A\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

 \*This is where M\_\_\_\_-O\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ ridges occur

**Convergent Boundaries**

 \*To Subduct means to G\_\_\_\_ U\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

 \*May create T\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

 \*Usually creates V\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ and M\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

**Transform Boundary**

 \*Plates slide P\_\_\_\_\_\_\_\_\_\_\_\_\_\_ each O\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

 \*E\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ occur here