Chapter 8 Plate Tectonics Test Study Guide: Geology 1P, Mr. Traeger

Name: _____ Period: _____ Date: _____

Section	Major Questions to be asked and/or tasked to be measured	Where do I find the information and/or where did we learn this?
8.1	▪ What were early ideas of plate tectonics? Think Wegener and Continental Drift! ▪ Who was James Hutton and what did he do? ▪ Who was Alfred Wegener and what did he do? ▪ What were Wegener's four observations that led him to his hypothesis of continental drift? ▪ What is the theory of plate tectonics? ▪ What types of evidence support it the theory of plate tectonics beyond what Alfred Wegener proposed? ▪ How does magnetism and rocks ages at mid-ocean ridges help to support the theory of plate tectonics?	▪ Online notes for Chapter 8 and *Planet Earth: The Living Machine* video ▪ Textbook Section 8.1 ▪ Homework Section 8.1 ▪ *Planet Earth: The Living Machine* Video Questions ▪ Paleomagnetism Lab ▪ ES0802 and ES0810 Internet Investigations ▪ Layered Earth software in class
8.2	▪ What are characteristic motions of convergent, divergent, and transform plate boundaries? ▪ What kinds of structures (landforms) would you expect to form at each type of plate boundary? ▪ What are the general locations of the different types of plate boundaries around the world and what is taking place at those boundaries? ▪ What is hot spot tectonics and how does this explain the formation of the Hawaiian and Galapagos Islands and also the Yellowstone Continental Hot Spot? ▪ How do you calculate rates of plate motion given the formula rate x time = distance or any variations of that formula? ▪ How do you do unit conversions for plate rate math?	▪ Online notes for Chapter 8 and *Planet Earth: The Living Machine* video ▪ Textbook Section 8.2 ▪ Homework Section 8.2 ▪ *Planet Earth: The Living Machine* Video Questions ▪ ES0802 and ES0810 Internet Investigations ▪ Layered Earth software in class ▪ Plate Tectonic Travel handout. ▪ This Dynamic Planet GIS lab and links on Internet Investigations page
8.3	• What is mantle convection? Ridge push? Slab pull? • Which idea named above is the most accepted idea for plate motion?	• Online notes for Chapter 8 and *Planet Earth: The Living Machine* video • Textbook Section 8.3 • Homework Section 8.3 • *Planet Earth: The Living Machine* Video Questions • ES0802 and ES0810 Internet Investigations • Layered Earth software in class
8.4	▪ What was Pangaea? How did it change over the years? ▪ What kinds of evidence (paleomagnetics, fossils, rocks, glacial striations, etc.) did we use to re-construct Pangaea? ▪ What is Paleomagnetism? How do we use it to reconstruct past worlds?	▪ Online notes for Chapter 8 and *Planet Earth: The Living Machine* video ▪ Textbook Section 8.4 ▪ Homework Section 8.4 ▪ *Planet Earth: The Living Machine* Video Questions ▪ Paleomagnetism Lab ▪ ES0802 and ES0810 Internet Investigations ▪ Layered Earth software in class