

## **Study Guide: Plate Tectonics and Earthquake Test**

**Test Dates: Tues. Block: December 8<sup>th</sup> /Wed. Block: December 9<sup>th</sup>**

**To prepare for the test, please review your notes, graphic organizers, homework worksheets, and look over PowerPoint lectures on the following:**

1. What is the Theory of Plate Tectonics?
2. What was Harry Hess's radical idea of Sea Floor Spreading?
3. What evidence supported Hess's Theory of Sea Floor Spreading? There are three evidences. (See Power Point Notes, and Harry Hess Article).
4. What features form as a result of Sea Floor Spreading?
5. What process occurs at Deep Ocean Trenches, describe what happens here?
6. What are the three main types of Plate Boundaries? Be able to recognize visually.
7. What features and processes occur at each type of Plate Boundary? (example: at Divergent Boundaries, the process of Sea Floor Spreading occurs)
8. What is an earthquake? What causes them?
9. Where does stress build-up in the Earth.
10. What are the three types of stress? Know what type of stress results at each type of Plate Boundary.
11. What is an earthquake fault and how do they form?
12. What are the three types of faults you learned about in class and what type of stress creates each? Be able to recognize a transform fault.
  - Normal – tension stress
  - Reverse (Thrust) – compression stress, Fault Block Mountain form.
  - Strike Slip – shearing stress, earthquakes and faults happen here.