**Exploratory Question 1 – Plate Tectonic Theory**

Plate Tectonics Reading

Go to <http://cengagesites.com/academic/assets/sites/2711_Monroech02.pdf> . Begin reading on page 39 and finish on page 50 (page numbers are listed at the top of the pages) at the heading “Plate Tectonics: A Unifying Theory.” Answer the following questions on your own sheet of paper.

1. What is the Plate Tectonic Theory?
2. Describe what a divergent boundary is and make a rough sketch of one.
3. What is formed at a divergent boundary, and where do they usually occur.
4. Describe what a convergent boundary is and make a rough sketch of one.
5. List and describe what is formed for the three types of convergent boundaries.
6. Describe what a transform boundary is and make a rough sketch of one. Name a famous North American transform boundary.

**Exploratory Question 2 – Plate Tectonic Theory**

**GPS – Plate Movements**

Go to the “GPS ” on your teachers website, or to <http://www.iris.edu/hq/files/programs/education_and_outreach/aotm/14/1.GPS_Background.pdf>.

1. What is ‘geodesy’ and how does geodetic data provide evidence of tectonic plate movement.
2. Before geodesy, how did we know the plates were moving?
3. How do you read a GPS time-series plot?
4. How is GPS used to study earthquakes and volcanoes?
5. What is GPS?