

Student-Teachers For A Day

Instructions: Complete section number one and all other sections that your group did not research. You need to answer 13 questions total. P.H.A. T.!!!

I. What are the four main features of Plate Tectonic Theory?

II. **Sea-Floor Features** (circle and complete both questions for each sea-floor feature that you did not research)

A. Island Arc-Systems

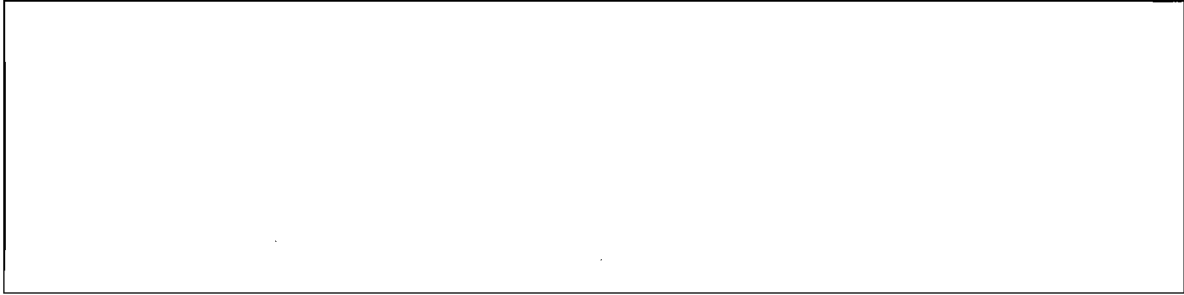
1)What are island arc systems and how are they created? (use labeled drawings to answer this)



2)How are island arc systems evidence for Plate Tectonic Theory?

B. Deep-ocean trenches

1)What are deep-ocean trenches and how are they created?(use labeled drawings to answer this)



2)How are deep-ocean trenches evidence for Plate Tectonic Theory?

C. Mid-Ocean Ridges

1)What are mid-ocean ridges and how are they created?(use labeled drawings to answer this)



2)How are mid-ocean ridges evidence for Plate-Tectonic Theory?

III. Plate Boundary Questions (complete all four questions for each of the two plate-boundaries your group did not research)

A. Divergent Plate Boundaries:

- 1) Which direction are the plates moving in relation to one another? (use arrows to show me)

- 2) What ocean floor feature is commonly associated with diverging plates?

- 3) What continental feature is commonly associated with diverging plates?

- 4) How are diverging plates related to sea-floor spreading?

B. Converging Plates:

- 1) Which direction are converging plates moving in relation to one another? (use arrows to show me)

- 2) What sea-floor features are created when a continental plate converges with an oceanic plate?

- 3) What continental features are created when a continental plate collides with an oceanic plate?

- 4) What continental features are created when two continental plates collide?

C. Transform Plate Boundaries:

1) Which direction do transform plates move in relation to one another? (use arrows to show me)

2) Are Earthquakes associated with transform plate boundaries? If so, why?

3) What is the San Andreas fault and how is it related to transform plate boundaries and earthquakes?

4) Will L.A. ever be off the coast of the Bay Area? Why? (use a labeled drawing to show me)