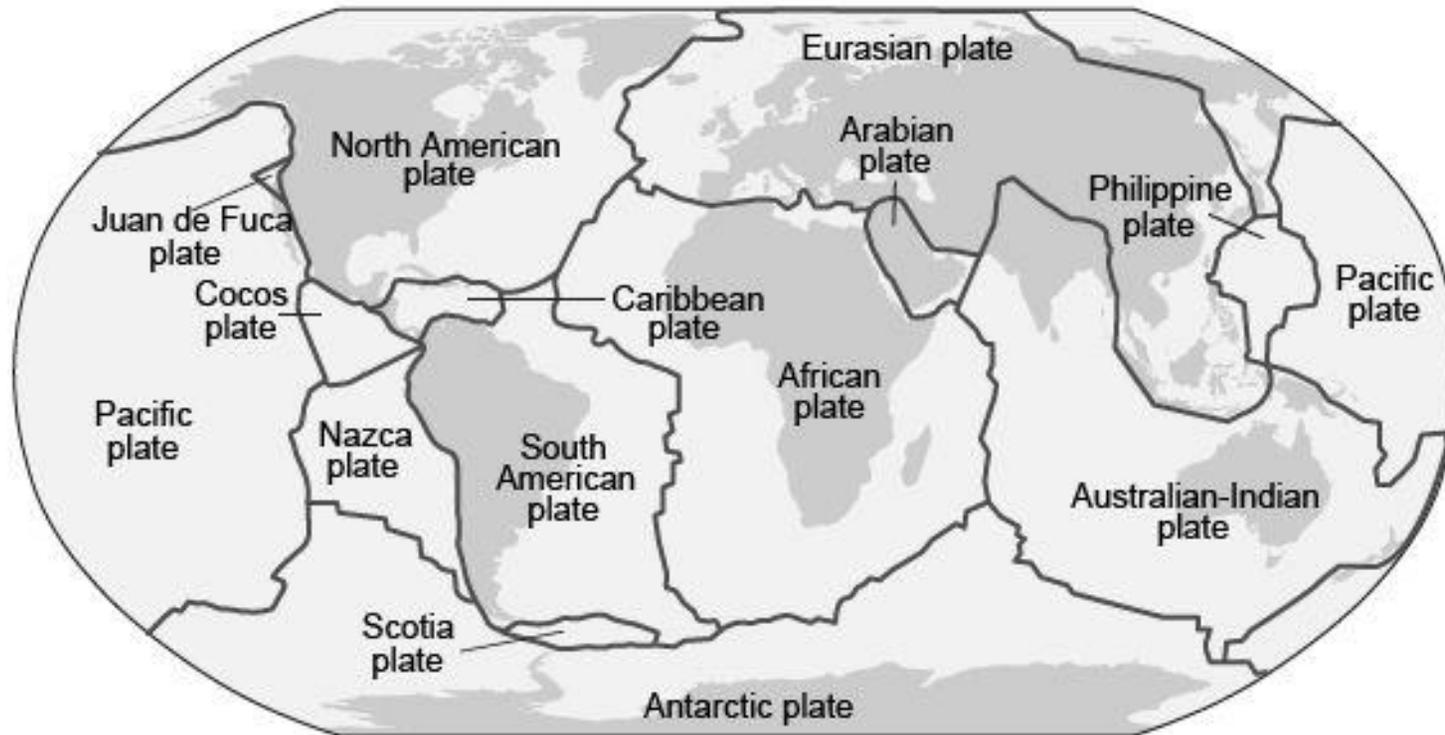


LITHOSPHERIC PLATES

Name _____

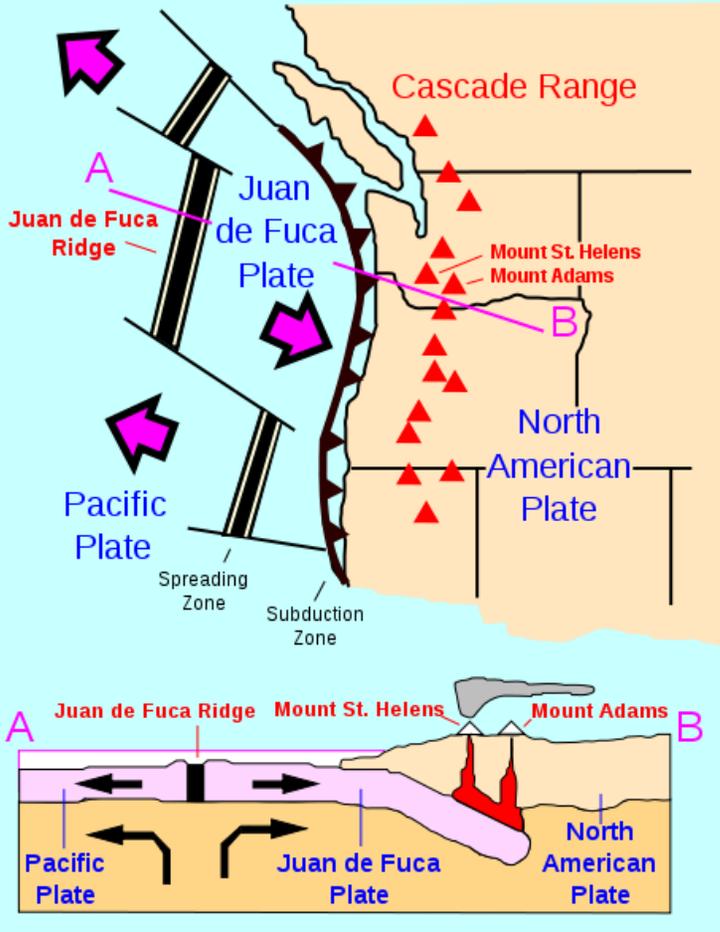
Date _____ Class Period _____



Directions:

1. Look in your red book at page 169. Color each lithospheric plate the same color as it is colored in the textbook. **Notice the continent is colored the same color only much darker than the plate. Do the same above.**
2. Go to the following website: <https://www.learner.org/interactives/dynamicearth/plate.html>
 - a. Read the information and view the animations on plates and boundaries.
 - b. Complete the "Plates and Boundaries Challenge". Record your first score. Retake it until you get all correct.
 - c. Label the Convergent Boundaries on the map above in red as shown on this website.
 - i. Look in the book (page 169). Find the convergent boundary on the northwestern part of the North American Plate near the Juan de Fuca Plate. Draw the appropriate arrows to show the plate movement. Label this the Cascade Range. Mount St. Helens is part of this mountain range.
 - d. Label the Divergent Boundaries on the map above in yellow (instead of white) as shown on this website.
 - i. Look at page 169 in the book. Find the Divergent Boundary found on the eastern side of the North American Plate. Draw the appropriate arrows to show the plate movement. This boundary has a specific name that we have talked about. Figure out its name then label it on the map above.
 - e. Label the Transform Boundaries on the map above in purple-pink as shown on this website.
 - i. Look in the book (page 169). Find the transform boundary on the west side of the North American Plate. On your map above, draw the same arrows to show the plate movement and the transform boundary. Label this area as the San Andres Fault. *Answer the following 3 questions in complete sentences on the back of this paper.*
3. The Pacific Northwest U.S. has a range of volcanoes running along the western coast called the Cascade Range. The most famous volcano in the Cascade Range is Mt. St. Helens which erupted in 1980. Explain what you think caused the volcanic Cascade Range of volcanoes. Be specific.
4. The west coast of California has a history of earthquakes near the San Andres Fault. Explain what causes the earthquakes in this location.
5. Find the mid-Atlantic Ridge. Make sure you labeled it properly on the diagram above. What is happening at this ridge? Explain at least 3 things that are happening.

Plate Tectonics - Cascade Range



Potentially Active Volcanoes of Western United States



Active Volcanoes, Plate Tectonics, and the "Ring of Fire"

