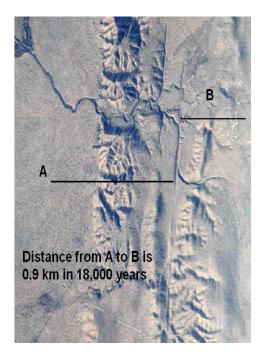
Transform Plate Boundaries

Name ______ Date _____

Background Information: We have learned that earth's crust is broken up into many pieces called plates. Due to convection, the plates are moving causing earthquakes and other features. Could the plates slide side by side (not coming together or apart)? If the plates are moving side by side, what types of surface features would be found? In this activity, you will investigate data in order to determine the direction and average rate of movement of neighboring plates (North American and Pacific) at the San Andreas Fault Line.

Objective: Using the provided data (pictures of the San Andreas Fault Line), determine the direction and average rate of movement of the Pacific and North American plates at the San Andreas Fault Line. Create a data table and conclusion.

Image #1 (northwest is up and)



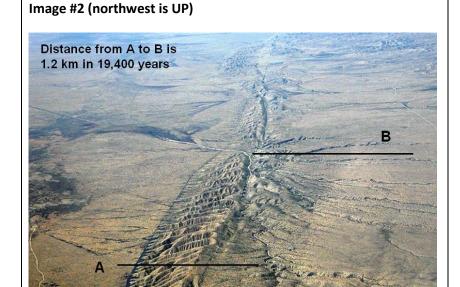


Image #3 (northwest is UP

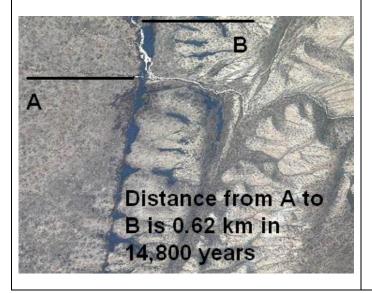
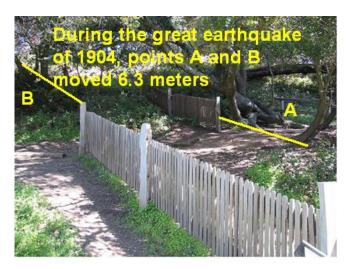
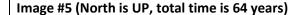


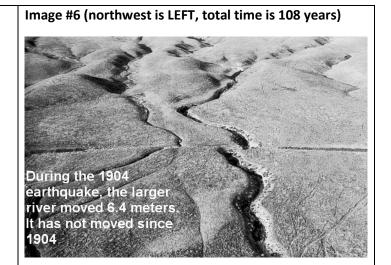
Image #4 (northwest is RIGHT total time is 108 years)







The trees above were planted in 1948. In 1986, an earthquake occured in which they moved 3.14 meters





Conclusion: Use the map to the left to determine the relative motion (which direction is the pacific plate moving?) and average rate of movement of the crustal plates. Explain how could you determine which way the North American plate is moving.

Justify your conclusion in a well written paragraph (cite pictures and data for evidence)

Outcome (what will be graded!): Your conclusion and data table (justified with evidence from pictures)