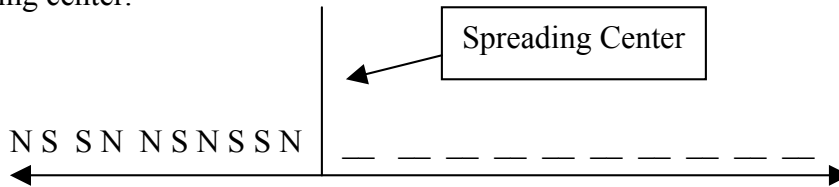


Name \_\_\_\_\_

### Self Check – Evidence of Plate Tectonics

1. Write in the code for the paleomagnetic reversal evidence on the opposite side of the spreading center.



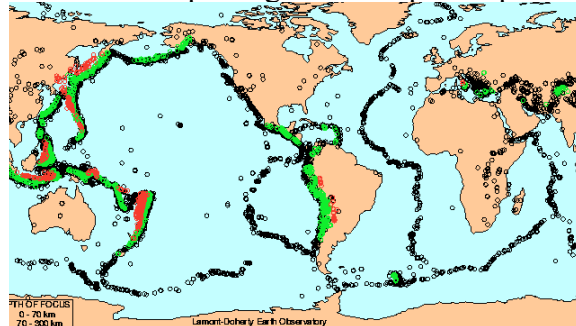
2. The continents fit together like \_\_\_\_\_.
3. If you found a sedimentary rocks with chunks of a special fossil in it in Brazil along the coast, (South America), what continent would you expect to find the same rock type on?
4. Global Positioning Satellites reading taken in Oregon a year ago and at present, when compared, they would have been displaced by how many centimeters in the horizontal position? \_\_\_\_\_ cm
5. Giant continental glaciers leaves \_\_\_\_\_ as they move across the ground.
6. Show the track of the hot spot (o) below:



7. Nuts from an extinct pine tree are found across the top of present day South America, where would you expect to find other fossils if it grew only at a certain latitude. Draw the region on the map below.



8. Draw the plate boundaries on the map using the earthquake epicenters.



9. Why does basalt (oceanic crust) subduct below granite (continental crust)?
10. What layer of the Earth acts in a plastic matter? \_\_\_\_\_
11. What are the 3 chemical layers of the Earth? Also, what elements make up each of those three chemical layers?
12. What are the 5 physical layers of the Earth?
13. What is the name of the force that causes the plates to move around the Earth?

**I don't expect you to know this yet, try to guess and I'll tell you the answer later.**

14. The density of granite is \_\_\_\_\_ g/mL and basalt is \_\_\_\_\_ g/mL