

Name: _____

Pd: _____

Date: _____

Earth Science: The Physical Setting

Instructions: Use Page 5 of the ESRTs to answer the following questions

1) Draw the symbol for each of the boundary/activity types listed below. Make sure to label when necessary (i.e. Convergent boundaries have an overriding plate and subducting plate)

Convergent	Divergent	Transform
Complex	Mantle Hotspot	

2) What type of plate boundary exists between the following:

a) North American Plate & Eurasian Plate: _____

b) South American Plate & Nazca Plate: _____

c) San Andreas Fault: _____

d) Antarctic Plate & Indian-Australian Plate: _____

e) Arabian Plate & Eurasian Plate: _____

f) Scotia Plate & Antarctic Plate: _____

g) Pacific Plate & Philippine Plate: _____

3) **Determine which plate is the overriding plate and which is the subducting plate:**

- a) Eurasian Plate: _____ & Indian-Australian Plate: _____
- b) Pacific Plate: _____ & North American Plate: _____
- c) Cocos Plate: _____ & Caribbean Plate: _____
- d) Nazca Plate: _____ & South American Plate: _____
- e) Juan De Fuca Plate: _____ & North American Plate: _____
- f) Eurasian Plate: _____ & Pacific Plate: _____
- g) Fiji Plate: _____ & Indian-Australian Plate: _____

4) **Determine the latitude and longitude of each of the following. Be sure to include units and compass directions.**

- a) Tasman Hot Spot: _____
- b) Easter Island Hot Spot: _____
- c) Hawaii Hot Spot: _____
- d) St. Helena Hot Spot: _____
- e) Canary Islands Hot Spot: _____
- f) Iceland Hot Spot: _____
- g) Bouvet Hot Spot: _____
- h) Galapagos Hot Spot: _____

5) **Why does Japan experience a large amount of tectonic activity while the east coast of the United States barely experiences anything? (Cite specific evidence from page 5 of the ESRTs to support your answer).**