Name _____

APES Topic 10 – Geology and Mineral Resources

Date _____

Mr. Romano

PLATE TECTONICS: A REVIEW and SOME NEW

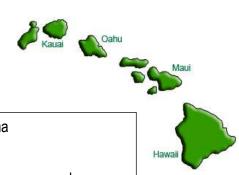
1. What events occur at or near plate boundaries?

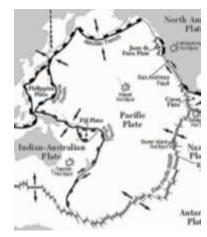
a. earthquakes

- b. volcanic activity
- c. mountain building events
- d. <u>tsunamis</u> when seismic activity (such as an earthquake) occurs energy is transferred to the water above creating a large sea wave

Ecological Impacts: flooding can lead to

- loss of coastal habitats
- drowning of terrestrial organisms (animals and plants
- saltwater intrusion into groundwater storage
- 2. What occurs at mantle hot spots?





- places in Earth's surface that magma rises up from the mantle
- as the crust moves over a hot spot, magma pushes up to form volcanoes - the active volcano in the chain is the one directly over the hot spot
- 3. How does the theory of plate tectonics fit into environmental science?
- a. primary succession formation of new terrestrial environments
- b. understanding biological evolution related to local climate change (finding fossils of animal and plant life in regions that they could not presently survive – evidence of ancient climates and previous locations of tectonic plates)
- c. speciation from geographic and reproductive isolation