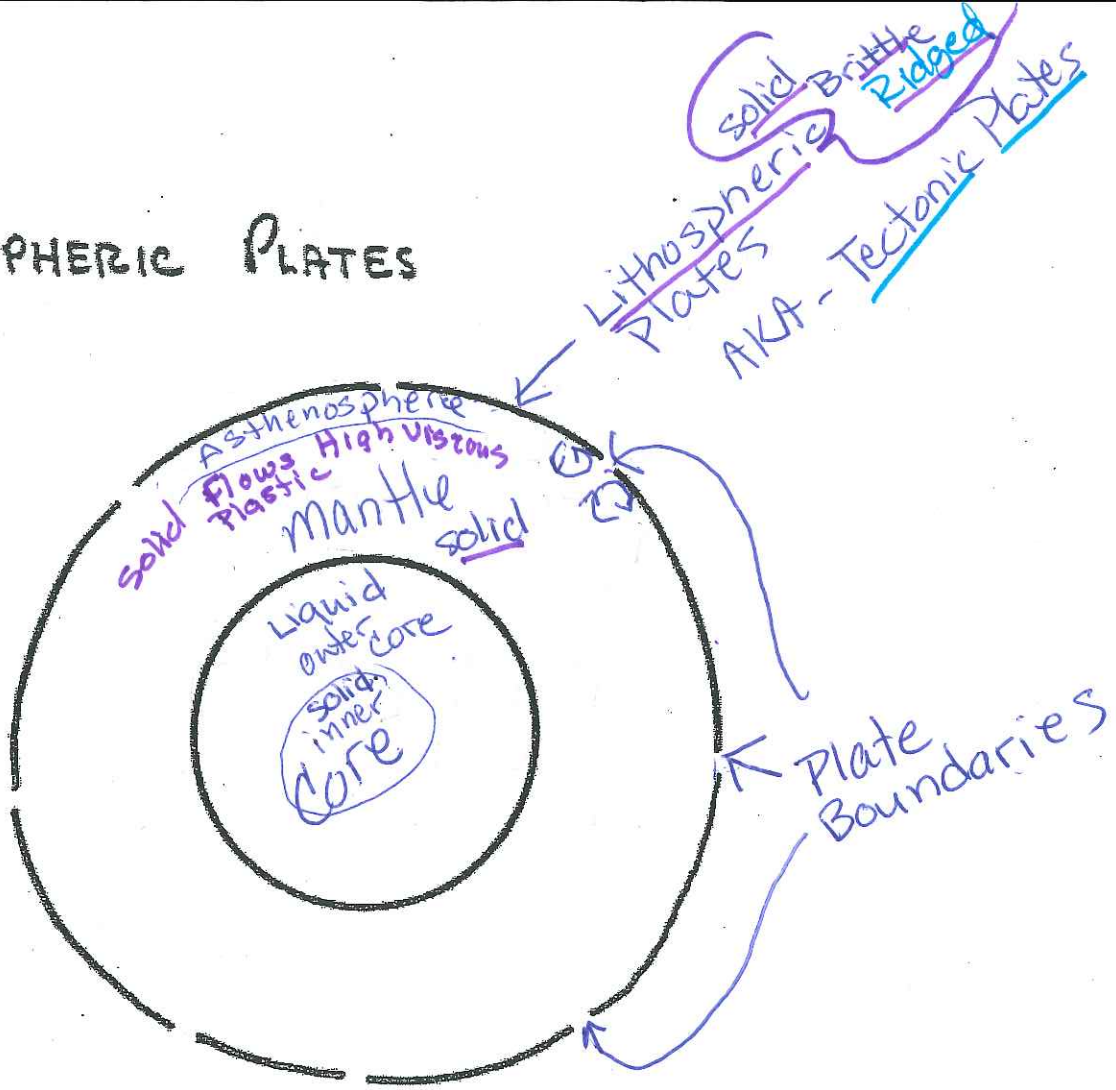
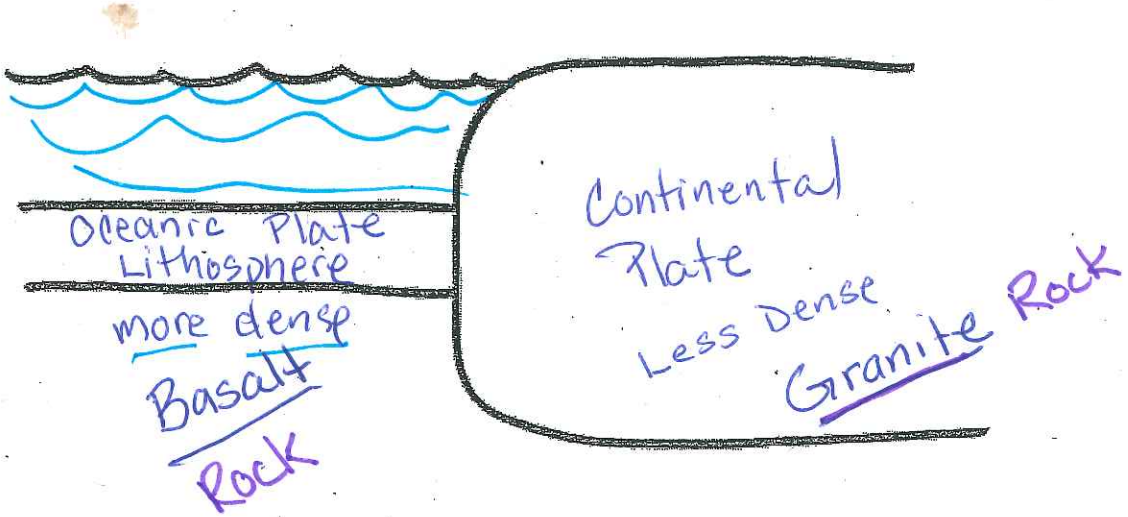
Lithospheric Plates

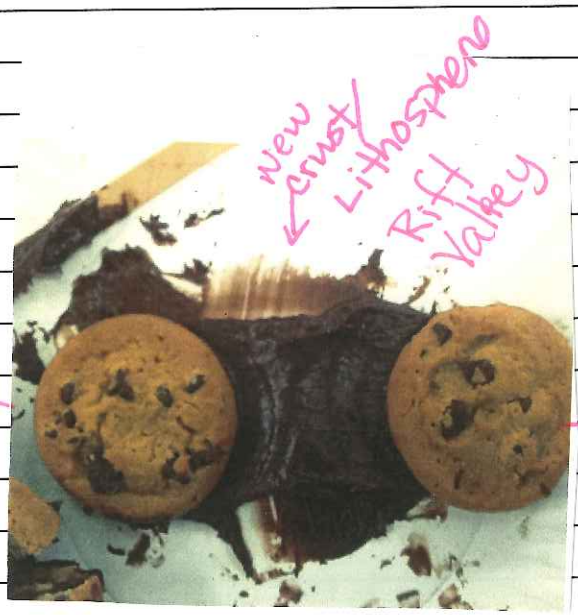


Two Types of Crust



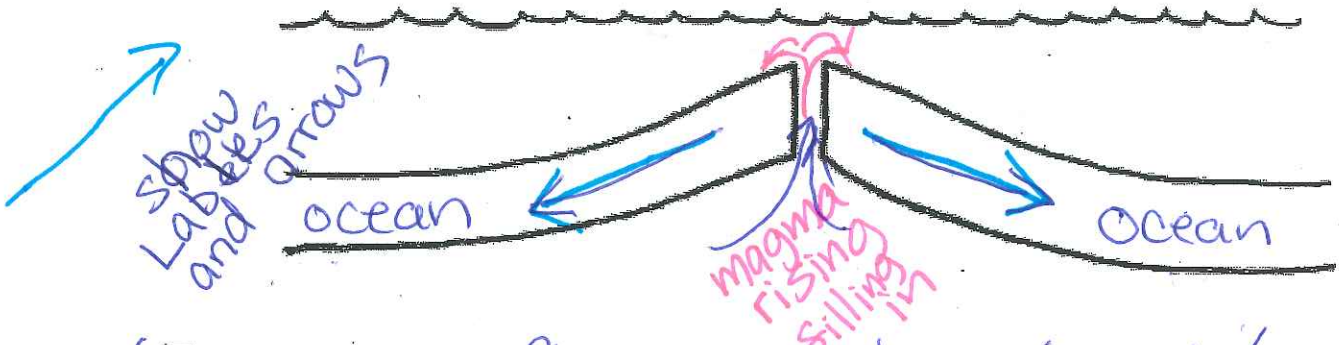
Theory of Plate Tectonics

Explains
- Mountains
- Valleys
- Ocean Basins
- Trenches
- Volcanoes
- Earthquakes
- Islands
- Faults



Divergent Boundary – Oceanic

*Example: Mid-Atlantic Ridge
~~Pacific~~ Antartic Ridge

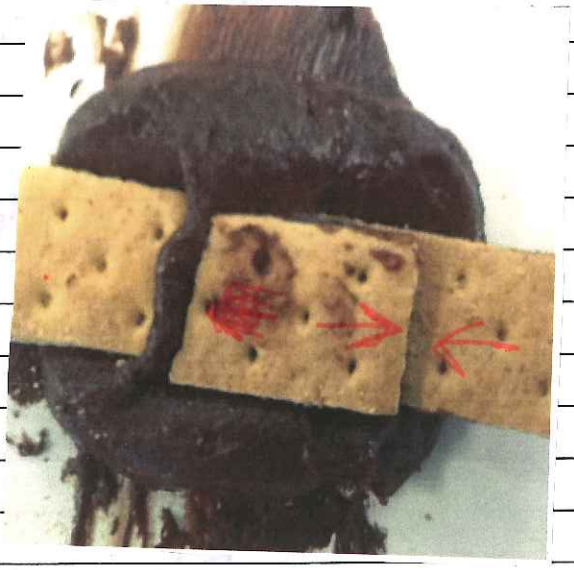


*Effects: Seafloor Spreading (Event/Action)
Mid-ocean ridges, Volcanoes (Landforms/structures)
New Lithosphere/crust/Rock

Divergent Boundary – Continental

Example: East African Rift Valley
Red Sea

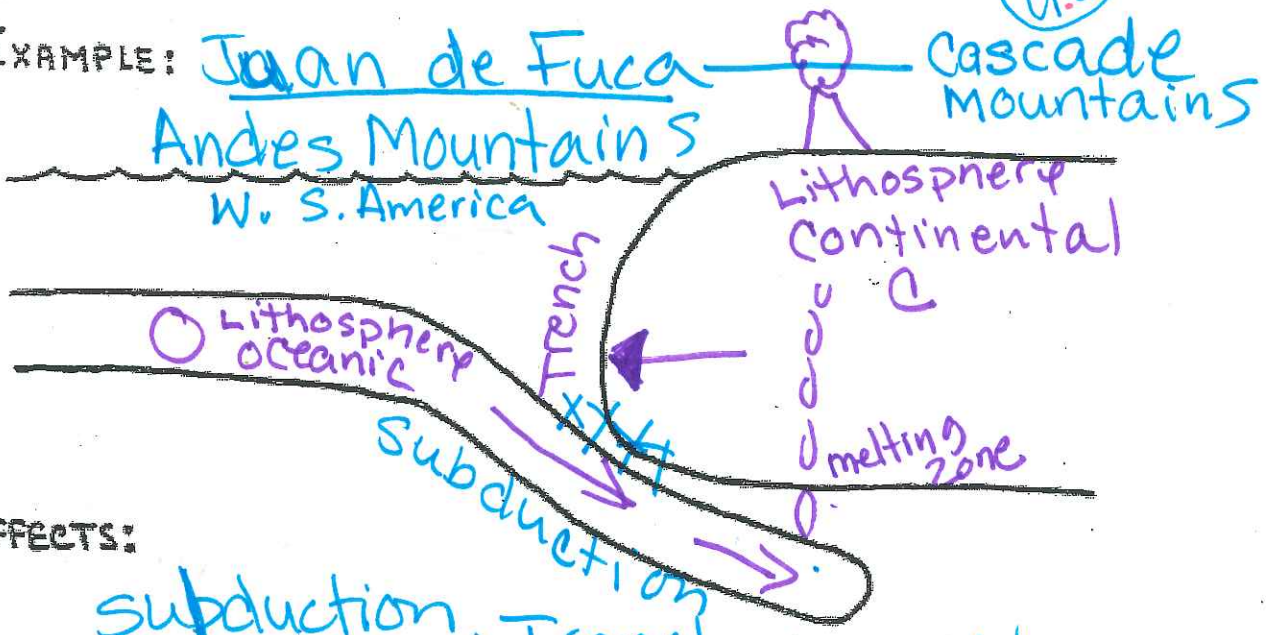
Effects: Rifting
Rift Valleys
Volcanoes



Convergent Boundary – Oceanic / Continental

N.W. U.S.

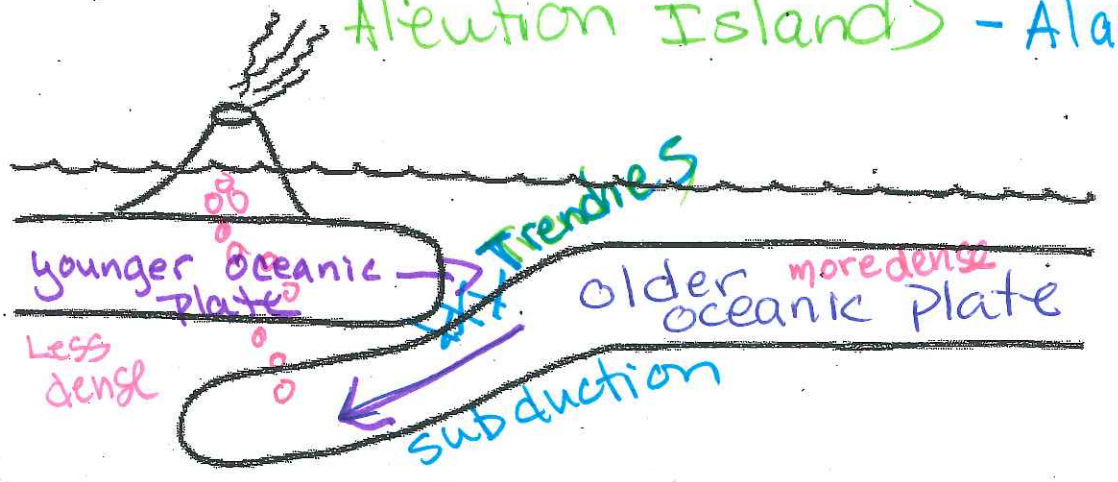
* Example: Juan de Fuca
Andes Mountains
W. S. America
Cascade Mountains



* Effects:
subduction, Trench, Arc Volcanoes

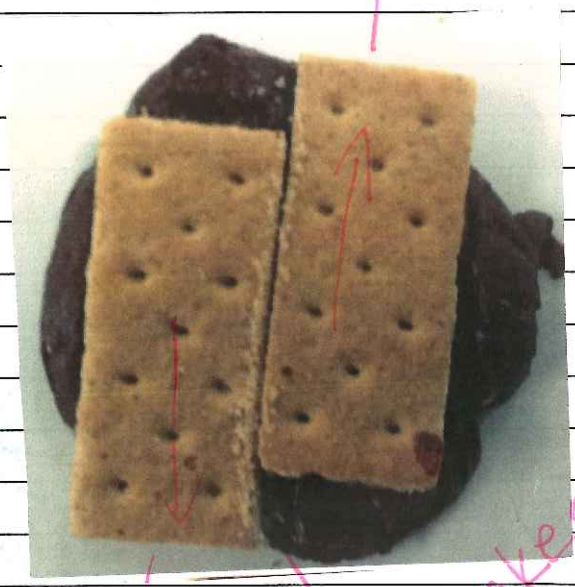
Convergent Boundary – Oceanic / Oceanic

Example: Japan
Aleution Islands - Alaska



Effects: Trenches
Arc Volcanoes
Island

mountains



Earthquakes

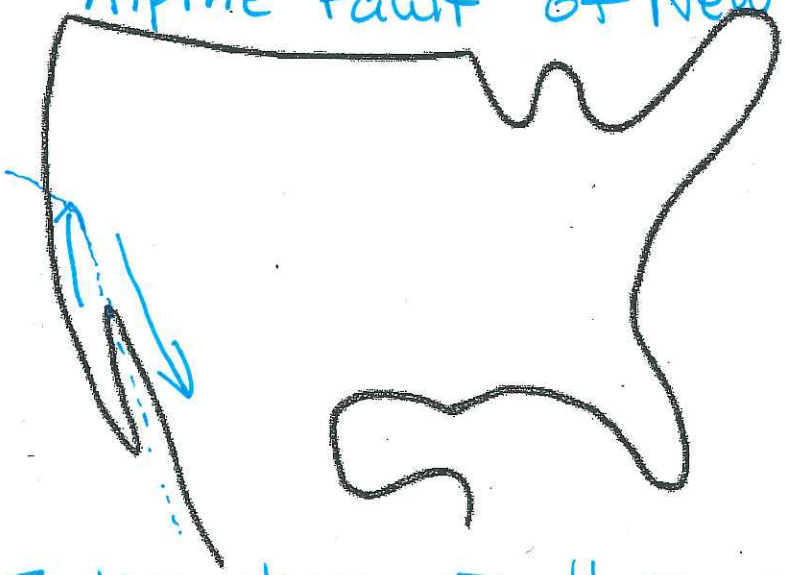
Convergent Boundary – continent / continent

Example: Himalaya Mountains
Appalachian Mountains (Ancient)

Effects: Faulting & Folding
Mountain Ranges

Transform Boundary – continental

Example: San Andreas Fault
Alpine Fault of New Zeland



Effects: Earthquakes Fault Zones