Name: _____

Date: _____ Period: _____

Review: Plate Tectonics

Directions: Carefully read over the checklist of items that you need to know for the "Plate Tectonics" test. Be sure to attend extra help if you have any questions.

CONTINENTAL DRIFT

☐ Terms to Know: Continental Drift, Pangaea, Mesosaurus, Glossopteris
☐ Evidences to support the Theory of Continental Drift:
    ☐ Puzzle-like fit of Africa's west coast and South America's east coast
    ☐ Fossil remains of the Mesosaurus were found in South America and South Africa
    ☐ Fossil remains of the Glossopteris found throughout India, S. America, Africa, and Antarctica

CRUSTAL ACTIVITY

☐ Terms to Know: Plate Tectonics, Plates, Lithosphere, Asthenosphere
☐ Convection Currents are the driving force behind plate movement
☐ Evidences of Plate Tectonics:
    ☐ Earthquakes along isolated belts outlining the plate boundaries
    ☐ Volcanoes occurring at plate boundaries where plates are interacting
    ☐ Tilted and/or folded rock layers that were initially deposited horizontally
    ☐ Mountains that were pushed up from plate collisions
    ☐ Fossilized shallow marine organisms found at high elevations
☐ Ring of Fire is an isolated belt around the Pacific Ocean where 90% of the world's volcanoes exist

CRUSTAL BOUNDARIES

☐ Terms to Know: convergent, divergent, transform, subduction, trench, mid-ocean ridge, rift valley
☐ Earth Science Reference Tables: Tectonic Plates
☐ Convergent Plate Boundary [→ ←] Features: trenches, mountains, island arcs, volcanoes
☐ Divergent Plate Boundary [← →] Features: mid-ocean ridge, rift valley, magnetic striping
☐ Sea-floor Spreading is the process where ocean floor is extended when two plates move apart
☐ Transform Plate Boundary Example: San Andreas Fault

VOLCANOES AND HAZARDS

☐ Terms to Know: volcano, caldera, pyroclastic flow
☐ Hotspot - thinner portions of the crust where rising convection currents bring magma to the surface
☐ Emergency Preparedness: evaluate