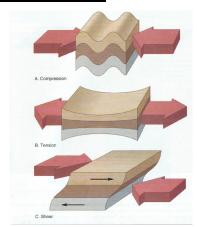
Types of Geologic Stress

Compression

Tension

Shearing



Faulting vs. Folding Factors that will determine if a rock will fault or fold Temperature **Confining Pressure** Rock Type Folding Time anticli syncline



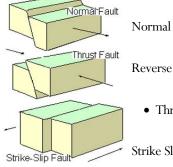
Anitcline

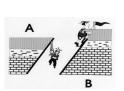
Syncline

Monocline

Faulting

Fracture Hanging Wall (A) Foot Wall (B)





Types of Faults

Reverse

• Thrust

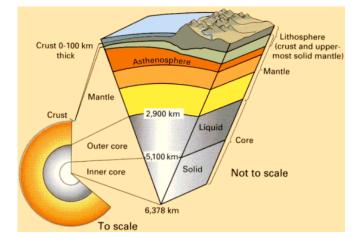
Strike Slip

PLATE TECTONICS VOCABULARY

| Continental drift | Deformation |
|--------------------------|-------------------|
| Pangaea | Stress |
| Plate tectonics | Strain |
| Plate | Anticline |
| Divergent boundary | Syncline |
| Convergent boundary | Monocline |
| Transform boundary | Tension |
| Oceanic ridge | Compression |
| Rift valley | Shearing |
| Seafloor spreading | Normal Fault |
| Subduction zone | Reverse Fault |
| Trench | Thrust Fault |
| Volcanic island arc | Strike-Slip Fault |
| Continental volcanic arc | Orogenesis |
| Paleomagnetism | Folded Mts. |
| Hot spot | Fault-block Mts. |
| Convective flow | Graben |
| Mantle plume | Horst |
| Lithosphere | Terrane |
| Asthenosphere | Isostasy |
| | |



Earth's Interior



Inner Core

Outer Core

Mantle

Mohorovocic Discontinuity (Moho)

Crust

Unique Areas of the Interior

Asthenosphere

Lithosphere

Continental Drift

Alfred Wegener -

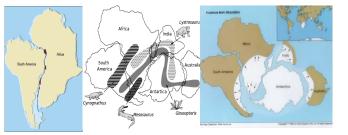
Pangaea -

Panthalassa -



Theory of Continental Drift -

Evidence For Continental Drift



Geographic Fit of Continents (#1)

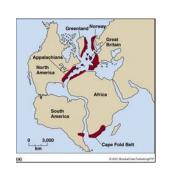
Fossil Evidence (#2)

•*Mesosaurus*

•*Glossopteris*

Glacial Scarring (#3)

Mountain Ranges (#4)

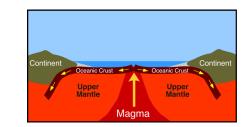


Seafloor Spreading

Mid-ocean ridge -

Subduction -

Trench -

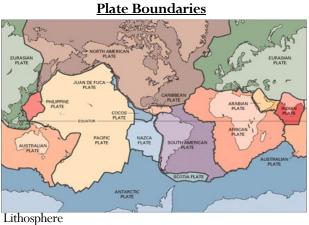


Evidence

Rock Age -

Paleomagnetism -

Convection Currents -



Asthenosphere

TYPES OF MOUNTAINS

Folded:

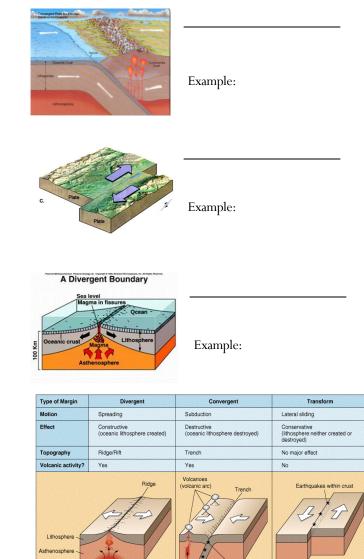
Dome:

Fault-Block:

Volcanic:

Continental-Continental:

Name & Describe Each Boundary



Describe 3 Types of Convergent Boundaries

Earthouake

Oceanic-Continental:

(a)

Oceanic-Oceanic: