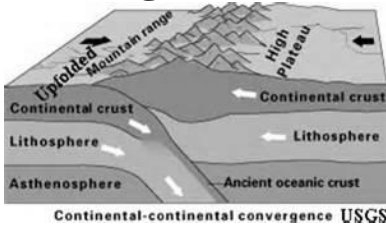


Notes

Plate Boundaries

Go to <https://www.youtube.com/watch?v=ifke1GsjNN0>. Use information there to add notes to this sheet.

Convergent: Continent to Continent

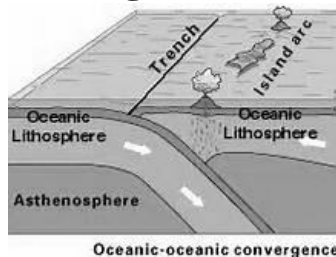


Location where 2 continental plates collide – ex. India and Asia

Features

1. Mountain building occurs here
Berkshires (Appalachian Mountains) formed at one of these when North America & Africa collided to form Pangea about 300 million years ago
India and Asia colliding to form Himalayas
2. Rocks from remote locations may be nearby Western CT, Scotland & North Africa share similar rocks
3. Volcanoes and Lava Flows occur inland of contact – ex. Teconic Mountains of New York
4. Corresponding mountains occur elsewhere - Atlas Mountains of North Africa
5. Erosion reduces height of mountains no longer at active boundary - example = Appalachians Mountains
At active boundaries, Mountains continue to grow = Himalayas

Convergent: Ocean to Continent – Subduction



Subduction Zones - where ocean plates move beneath continental plates
very dangerous places to live - volcanoes and earthquakes

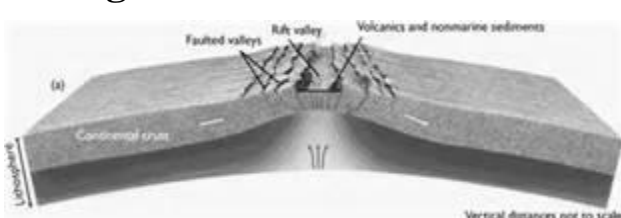
Japan, Philippines

Oceans made of frozen magma = Basalt - very dense rock perhaps
2+ times as heavy as equal amount of continents

Features

1. Volcanoes form along continental margin
Mt. Fuji, Japan & Mt. Pinatubo, Philippines
2. ocean floor movement beneath continents allows rock to be recycled remelted by lithosphere (mantle)
3. deep ocean trenches occur here
Mariana Trench off Philippines, Aleutian Trench off Alaska

Divergent:



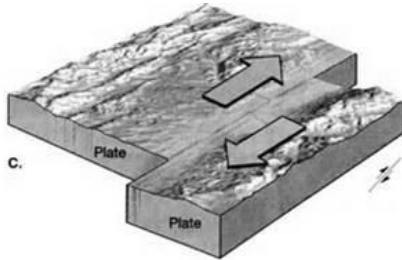
Where 2 plates separate - Mid-Atlantic Ridge

Features

1. Rift Valleys form here
steep, narrow canyons
Great Rift Valley of Africa = Victoria Falls
Death Valley California
Connecticut River Valley
200 million years ago was start of separation of Pangea

2. Volcanoes and lava flows occur here
Iceland along Mid-Atlantic Ridge
Traprock Hills around Hartford Connecticut
trap rock = basalt = quarried there today
3. Flooding by oceans may occur leaving marine fossils
Mediterranean and Red Seas at these boundaries today

Transform



Where 2 plates move past each other

North America moving past Pacific plate in southern CA.

San Andreas Fault runs from Gulf of CA. To San Francisco
will not cause southern CA. To fall off, but to move
north - Los Angeles to San Francisco

Features

1. Earthquakes - lots and relatively shallow movement can be as little as 1mm or up to 10 meters
1906 - Great San Francisco Earthquake