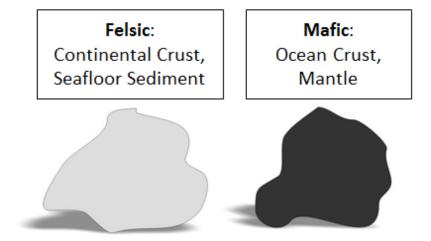
Two General Categories of Rocks: Mafic and Felsic

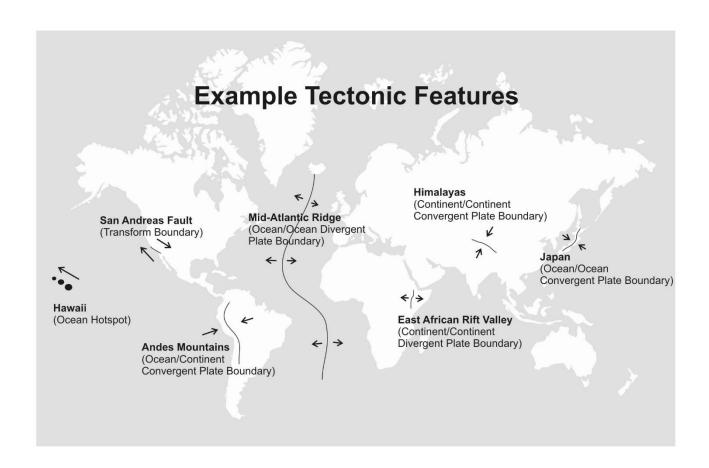
Characteristics of Mafic Rock:

- Dark in color
- More Dense
- Low Viscosity (runny) when turned to magma
 - o Does not build up high pressure, so it roduces gentler eruptions
 - o Does not pile up, so volcanoes are lower and rounder
- An example of this type of rock is basalt
- Found mostly in the mantle and in ocean crust (because it is dense, and it sinks)
- It is called "mafic" because it contains the elements Magnesium (symbol Ma) and Iron (symbol Fe).

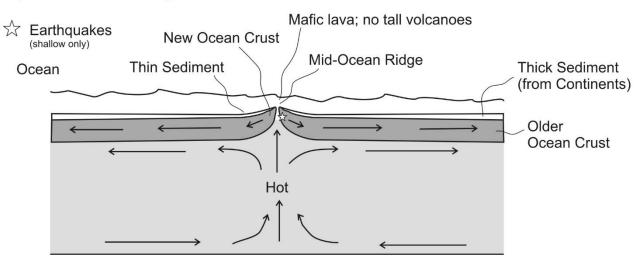
Characteristics of Felsic Rock:

- Light in color
- Less dense
- High Viscosity (gooey) when turned to magma
 - o Builds up pressure and makes volcanoes more explosive
 - o Piles up, so it makes volcanoes steeper
- An example of this type of rock is granite
- Found mostly in continental crust and in seafloor sediment.
- It is called "felsic" because it contains the minerals Feldspar and Silica.

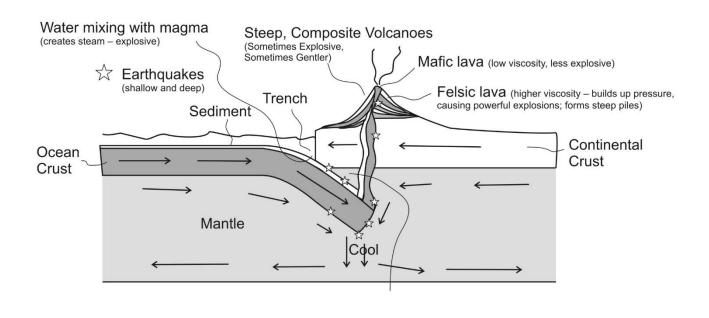




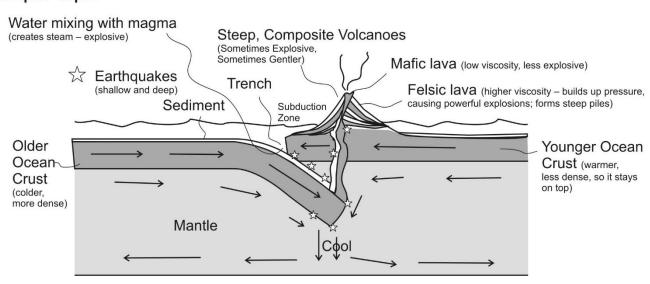
Ocean/Ocean Divergent Example: Mid-Atlantic Ridge



Ocean/Continent Convergent Example: Andes Mountains, South America

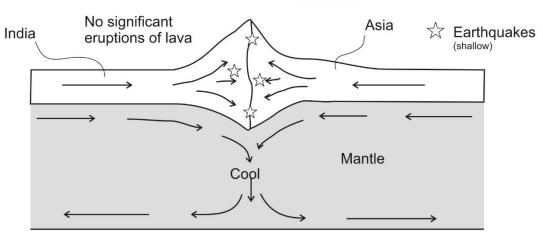


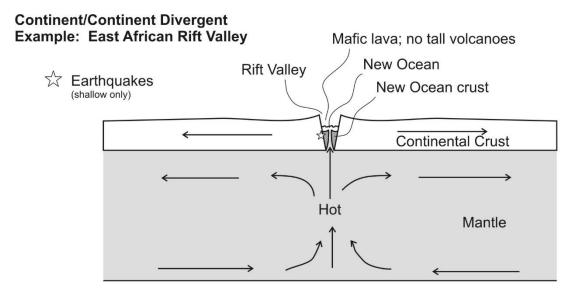
Ocean/Ocean Convergent Example: Japan



Continent/Continent Convergent Example: Himalayan Mountains – Mt. Everest (India colliding with Asia)

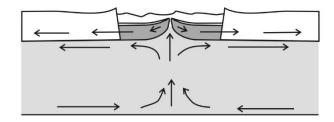
Tall, non-volcanic mountains

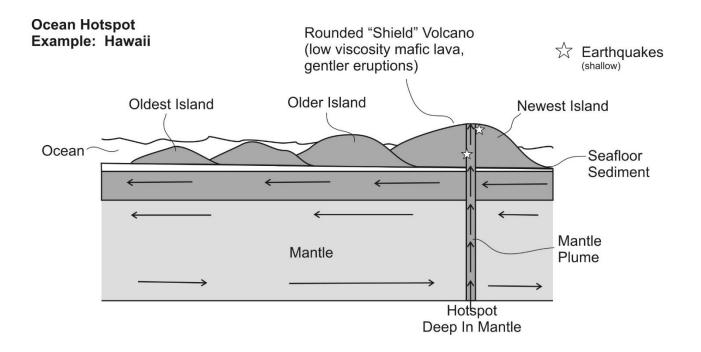




As the continents split apart and more ocean forms, a continent/continent divergent boundary turns into an ocean/ocean divergent boundary.







Transform Plate Boundary Example: San Andreas Fault, California

