





Three Classes (types) of Rocks:

<u>Igneous Rock</u>



When magma or lava cools and hardens to become solid.

Intrusive - When magma does not reach Earth's surface. Beneath Earth.

coarse - grained with large crystals

Extrusive - When lava erupts onto Earth's surface. On Earth.

fine-grained with small or no crystals



<u>Metamorphic</u> <u>Rock</u>



When pressure, temperature, or chemical processes change existing rock.

Foliated - When mineral grains are arranged in planes or bands (layers)

Non-ioliated - Do not have mineral grains that are aligned in planes or bands



Sedimentary Rock



When minerals that form from solutions or sediment from older rocks gets pressed and cemented

together.

Clastic - When sediments are buried, compacted, and cemented together by calcite or quartz.

Chemical - When water evaporates

Organic - from the remains of once living plants & animals





Tectonic Plate Motions – move rock around by

1. Moving rock up or down:

Uplift – rising of earth's crust to higher elevations

Subsidence - sinking of crust to lower elevations



2. Pulling apart Earth's surface:

Rift zone – an area where a set of deep cracks form.

