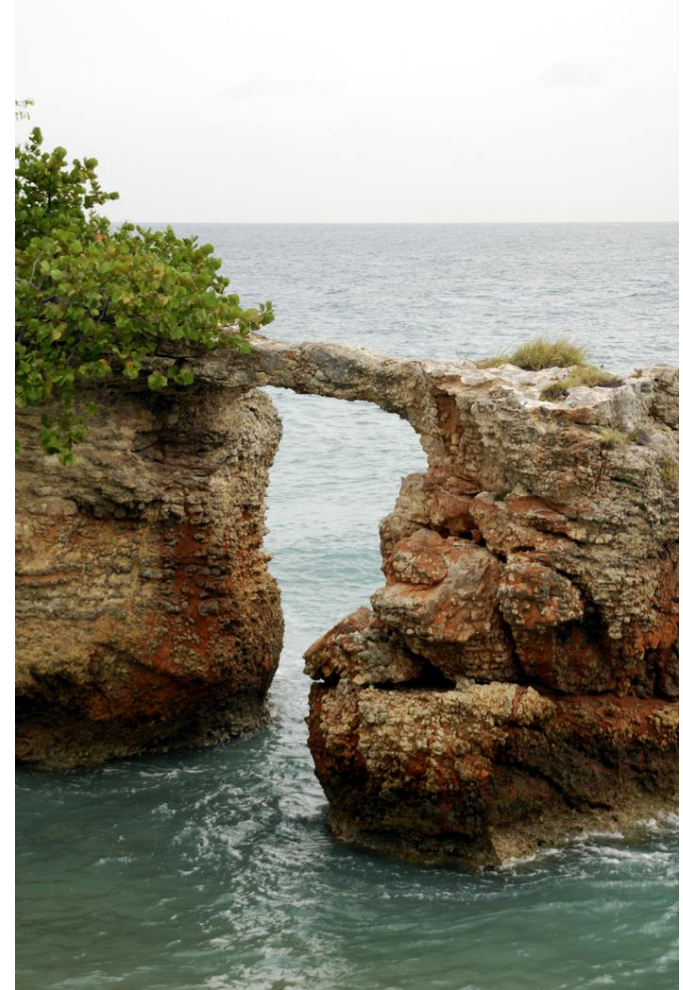


Types of Rock

Images from Geology.com unless otherwise noted

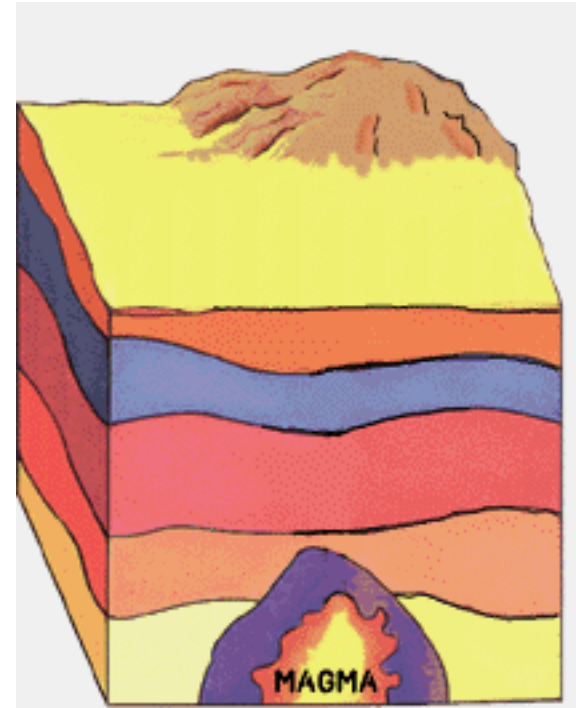
What are Rocks?

- A rock is a naturally occurring solid mixture of one or more minerals, or organic matter
- Rocks are classified by how they are formed, their composition, and texture
- Rocks change over time through the rock cycle

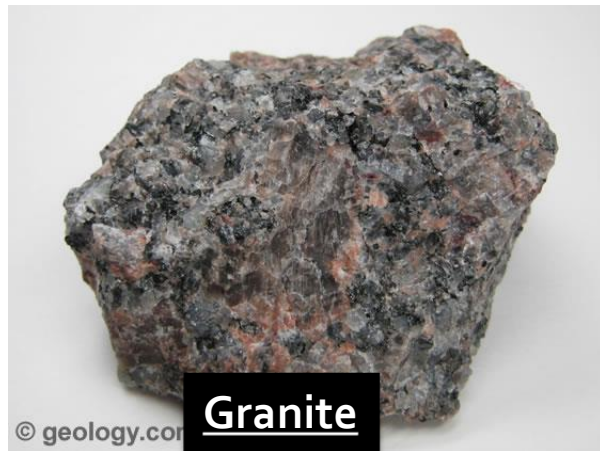


Igneous Rocks

- Igneous rock begin as magma.
- Magma can form:
 - When rock is heated
 - When pressure is released
 - When rock changes composition
- Magma is a mixture of many minerals that is melted below the Earth's surface.

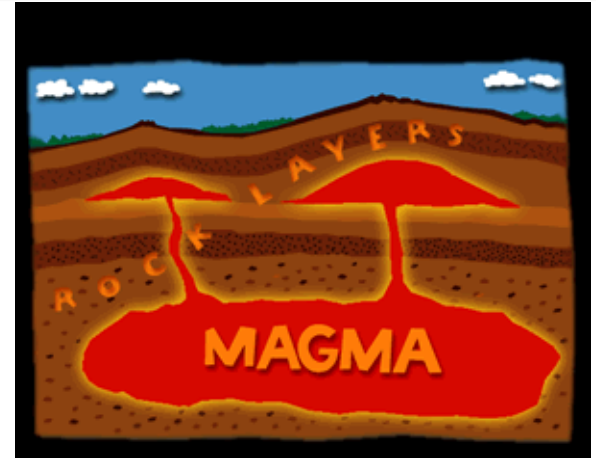


Igneous Rocks



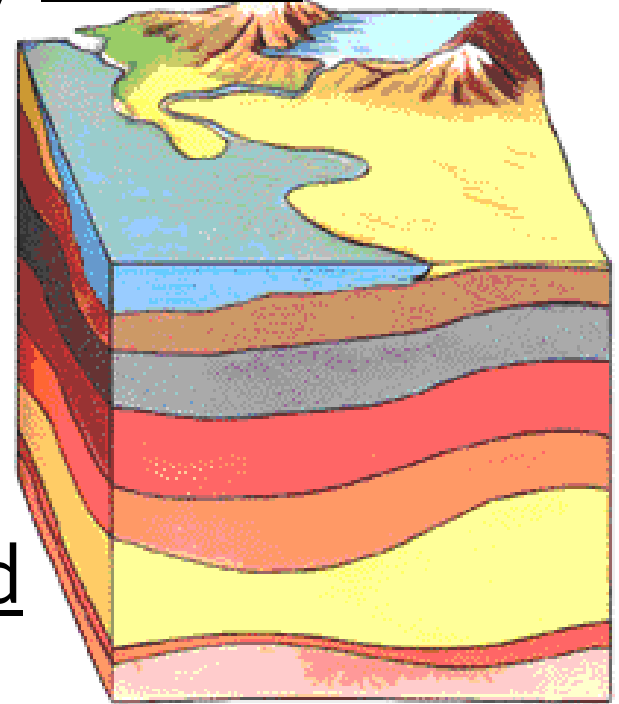
Igneous Rocks

- Intrusive Igneous Rocks: magma pushes into surrounding rock below the Earth's surface
- Extrusive Rocks: forms when magma erupts onto the Earth's surface (lava), cools quickly with very small or no crystals formed



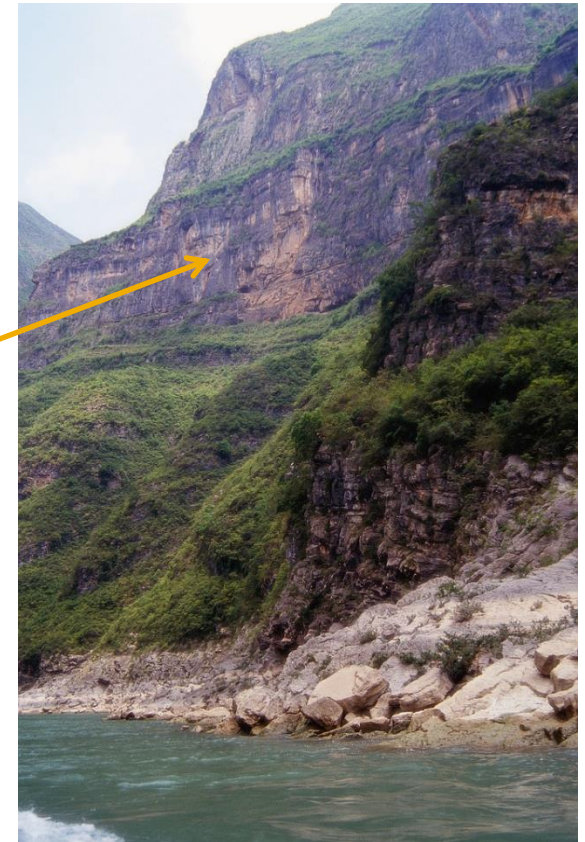
Sedimentary Rocks

- Sedimentary rock is formed by erosion
- Sediments are moved from one place to another
- Sediments are deposited in layers, with the older ones on the bottom
- The layers become compacted and cemented together



Sedimentary Rock

- Sedimentary Rocks are formed at or near the Earth's surface
- No heat and pressure involved
- Strata – layers of rock
- Stratification – the process in which sedimentary rocks are arranged in layers



Sedimentary Rock

Breccia



Sedimentary Rock

Limestone



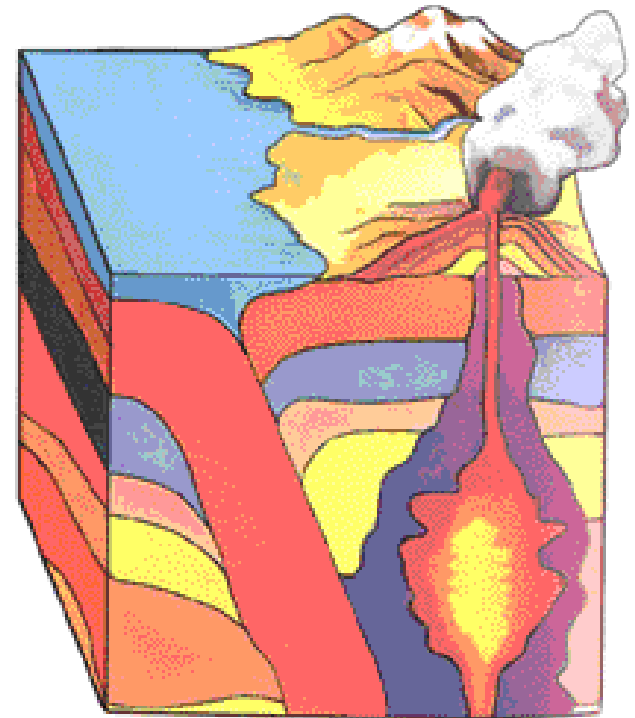
Sedimentary Rock

Coal



Metamorphic Rock

- Meaning to change shape
- Changes with temperature and pressure, but remains solid
- Usually takes place deep in the Earth

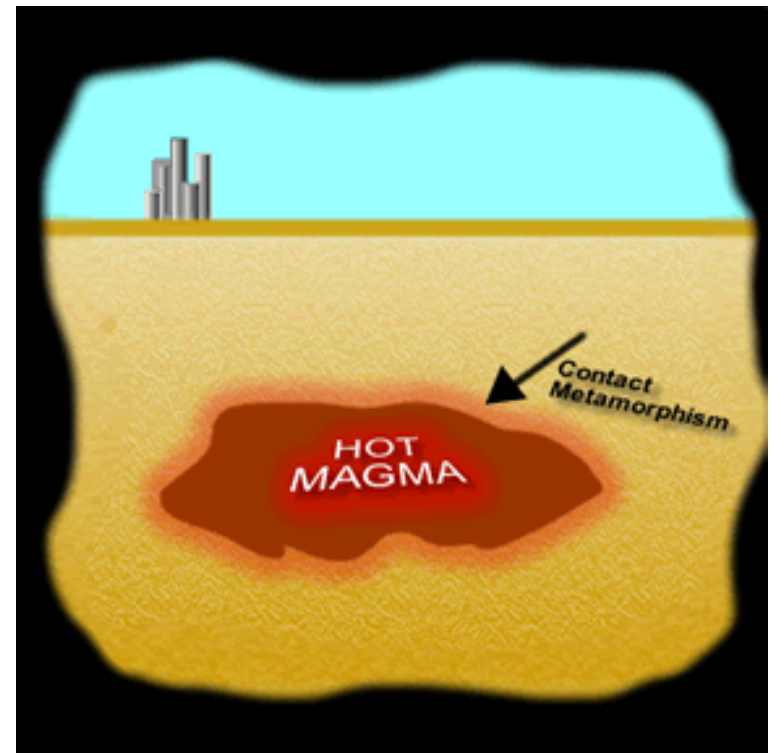


Metamorphic Rocks

- Contact Metamorphism – heated by nearby magma
- Increased temperature changes the composition of the rock, minerals are changed into new minerals

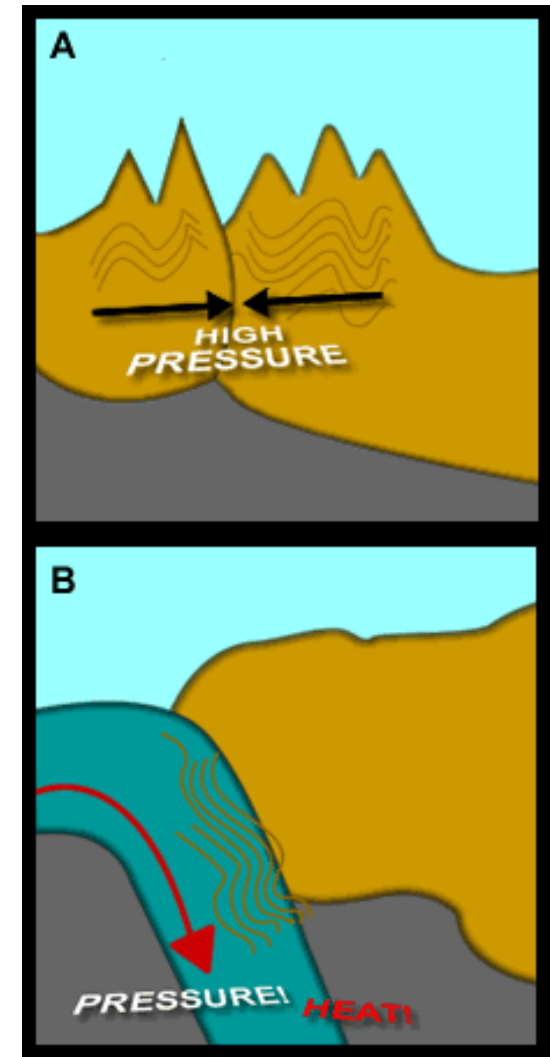


Hornfels



Metamorphic Rocks

- Regional Metamorphism – pressure builds up in rocks that is deep within the Earth
- Large pieces of the Earth's crust collide and the rock is deformed and chemically changed by heat and pressure



Metamorphic Rock

- Gneiss

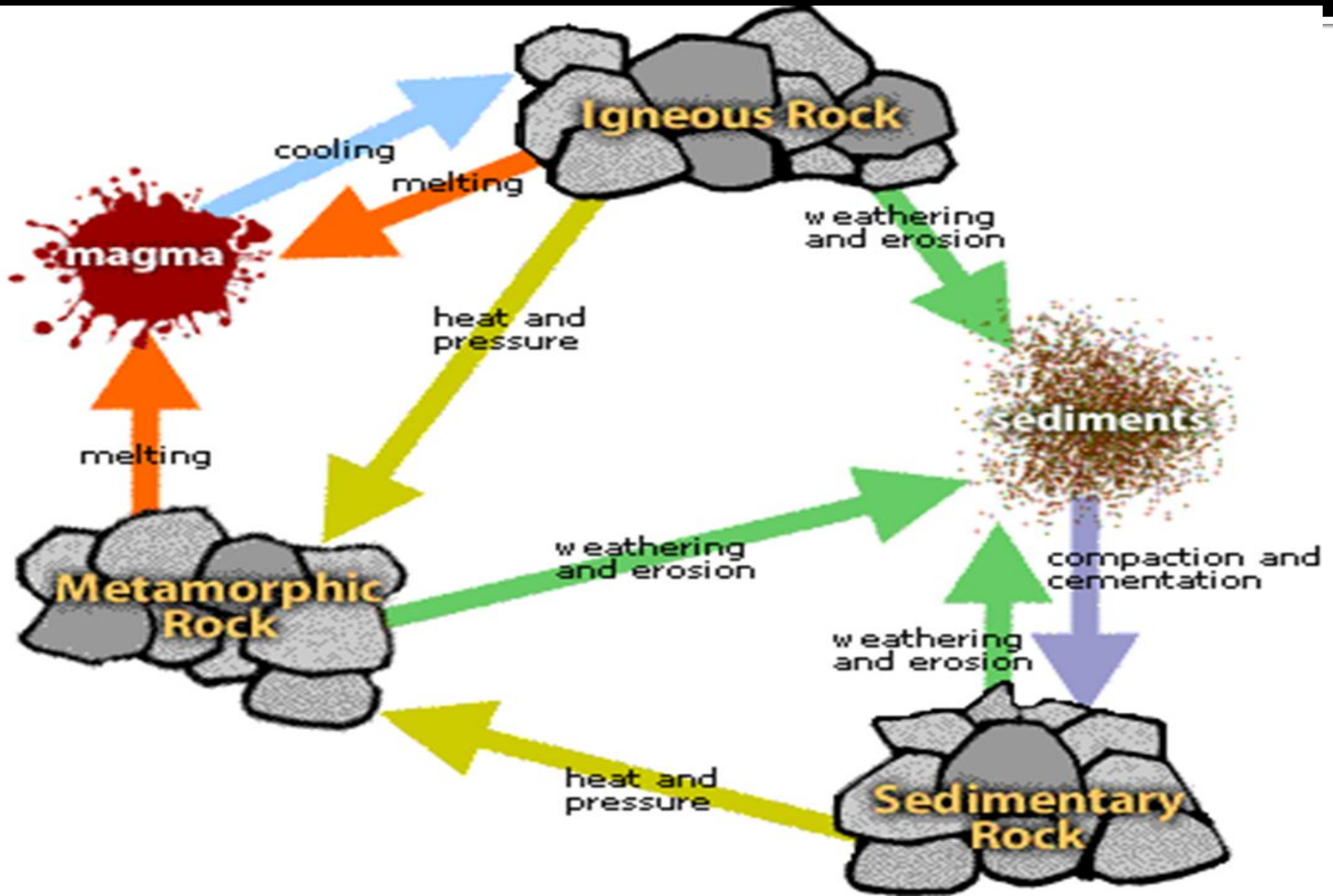


Metamorphic Rock

- Marble



The Rock Cycle



Simply Put Rock Cycle

The Rock Cycle

