

Rock Types

- We can classify rocks into three major families
- Each rock has a different appearance
 The three families are igneous, sedimentary and metamorphic

Igneous

- Formed when hot magma or lava cools and solidifies
- Magma is beneath the Earth's crust, lava is outside!



Igneous

 When magma cools, it makes an intrusive rock, when lava cools it makes an extrusive rock





Sedimentary

- Made from loose material including sand, rocks, minerals and possibly animal or plant material
- The sedimentary rocks form layers called
 strata



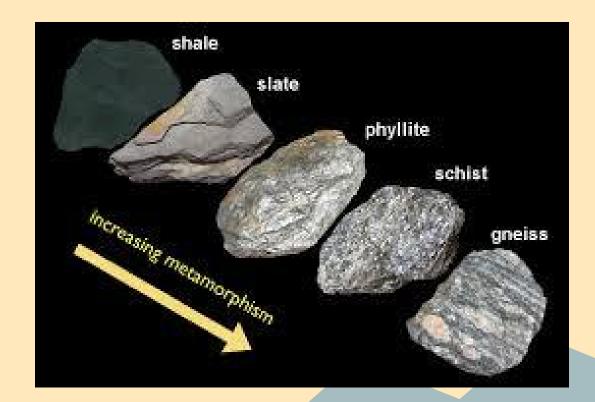
Stratification

We can use the strata to give us clues as to what happened during each time period
We can also date fossils found in the strata if we know how many years strata took to form!

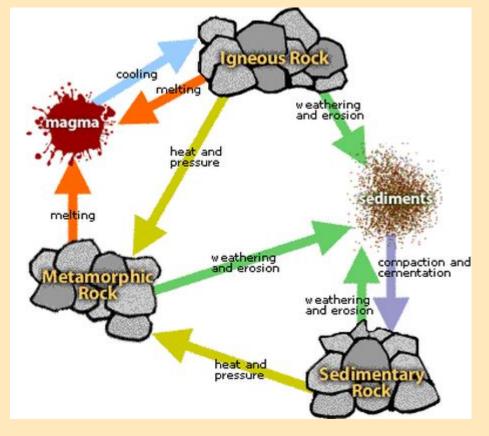


Metamorphic

- These form when high pressure and/or heat cause a rock to change
- The type of rock formed depends on the amount of pressure and time
 Ex. Shale Slate Schist



The Rock Cycle



Sediment and Soil

- When organic matter breaks down, it is known as compost
- Compost can mix with other dark parts of soil to form **humus**

Sediment and Soil

- Humus is rich in nutrients and can provide good soil structure, with lots of water for plants
- Fertile soil can supply nutrients for plants
 to grow, such as the soil near rivers

Soil Profile

- Soil can take thousands of years to form, and will often form in layers
 These layers makes up a soil profile
 The top layer of soil is called the topsoil
- Leaching is the removal of soil materials when dissolved in water

