

Rock Cycle

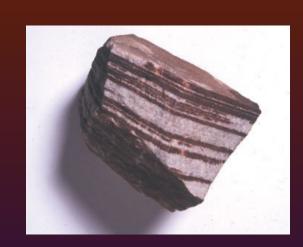
Welcome to the Rock!

THINKPAIRSHARE

- * What is a rock?
- * Take a minute and write down what you think the definition of a "rock" is.
- *Once you have done so, discuss your answers with the person beside you. Compare your answers and discuss your thought process.
- *Once you have completed this, as a class we will discuss your thoughts.

Rock

A rock is...



- * Made of a blend of minerals
- * Are built from materials from inside the Earth and recycled into new materials
- Can be classified into three different categories

Rocks...Minerals..what is the difference?

A rock is...

Made of a blend of minerals

A mineral is...

* Solid, crystalline substance that is the same chemically throughout

Example: diamond is a mineral form of the chemical element carbon

Rocks...Minerals..what is the difference?

A rock is...



Granite

A mineral is.





Rough diamond





Jadeite=jade

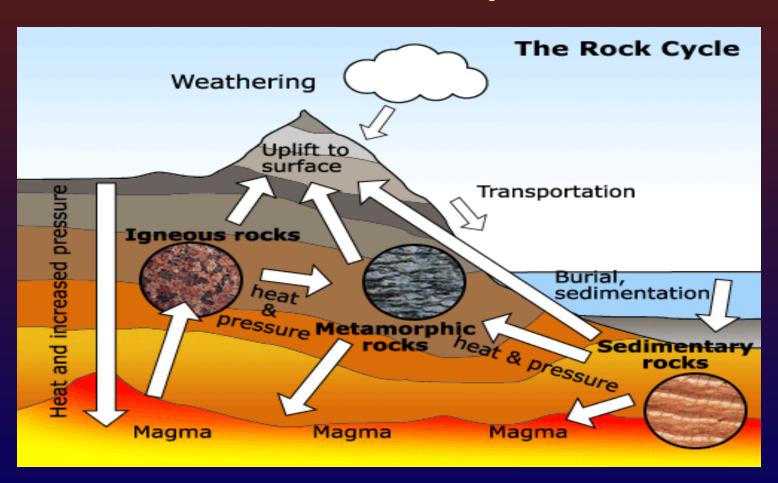


Salt





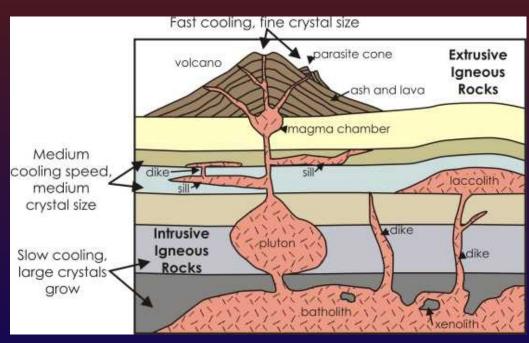
The Rock Cycle



Igneous

*The word Igneous is Greek for "FIRE"

* As magma pushes towards the earths surface, it begins to cool and turns into solid igneous rock.



*All igneous rocks do not cool the same way, hence the reason why they do not all look the same.



Igneous

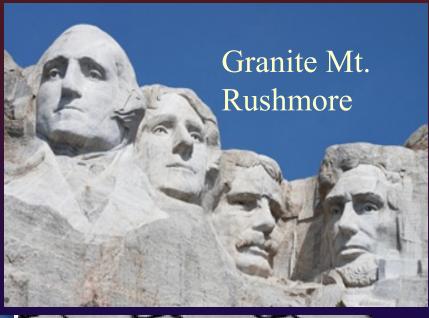
* Intrusive igneous rocks cool slowly under the earths surface. Granite is an example of this.

*Extrusive igneous rocks occur when magma erupts and the lava cools quickly and forms rocks with small crystals. Basalt is an example of this.







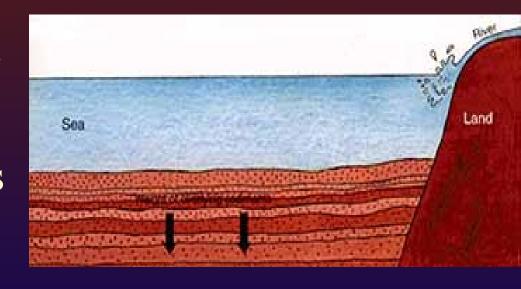






Sedimentary

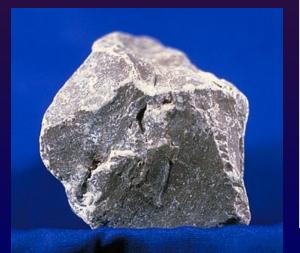
- * Earth's surface is constantly being eroded by weathering (wind, rain, ice).
- This means that rocks are broken up into small pieces.



*These pieces, through weathering, travel and settle in new places and begin to pile up to form flat layers.

Sedimentary

- * Over time, these pieces are pressed together to form solid rock called sedimentary rock.
- * Examples include limestone, sandstone, and shale.







Image



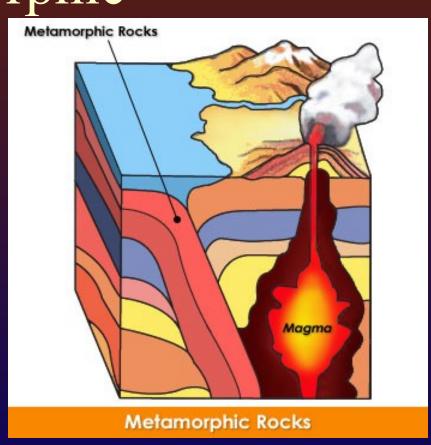
Many buildings use sedimentary because it is easy to cut.

Ex. A Courthouse in Kansas built of Limestone, of this sandstone wall

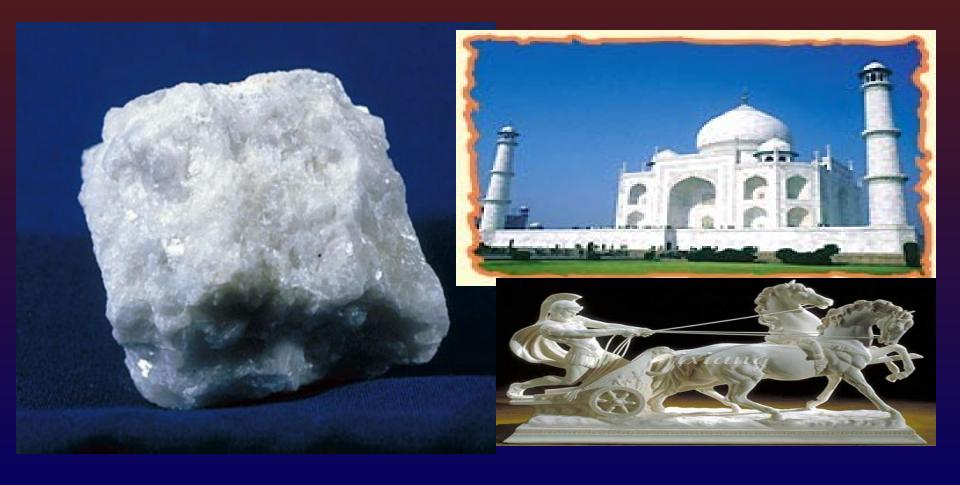


Metamorphic

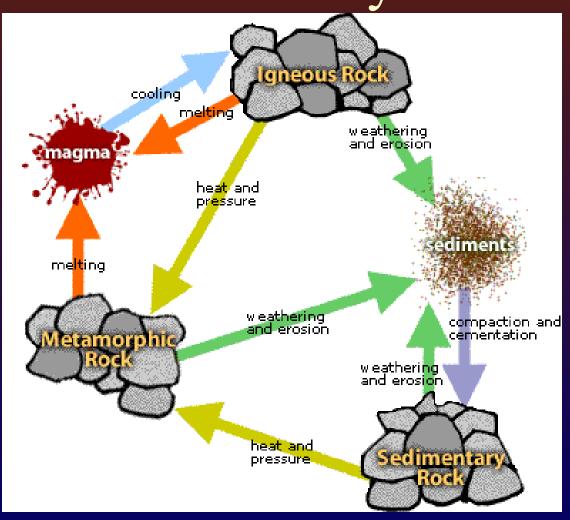
- Heat and pressure can alter many things, including rocks.
- * Metamorphic rocks are formed deep in the earth where the temperature and pressure are both very high.
- * Heat comes from the magma and the pressure comes from the layers of rock.



Limestone turns into Marble



The Rock Cycle



Make Your Own Rock Cycle

Using the previous rock cycle, pencil crayons and a pencil, make your own rock cycle with captions on the side explaining what is happening.

