Rock Cycle Foldable

- •Get out your notebook and your foldable.
- •Notes will be taken inside your foldable.

Rock Vocabulary

- Rock Vocab cards should already be completed, there are teacher notes on my website.
- Element: unique substance made of one type of atom only.
- <u>Atom</u>: smallest unit of matter that retains unique properties. NUCLEUS





• <u>Mineral</u>: a solid, inorganic, crystalline, naturally occurring, unique substance. Can be an element or a compound.
 • <u>Compound</u>: a unique substance made of two or more added of two or more substances that are not chemically combined and can be separated.
 • <u>Compound</u>: a unique substance made of two or more elements.

Rock Cycle

- Rock Cycle: slow cycle that builds, destroys and changes rocks
- Rocks are classified (grouped) by color, texture, & mineral composition (ingredients)
- Texture: Look and feel of a rock's surface because of its grains (size, shape, pattern)
- Grains: small particles or minerals or rocks



Igneous Rock

- Origin/Texture:

 <u>Intrusive</u> (plutonic): rocks formed in mantle from slowly cooling magma, have larger (coarse-grained) crystals
 - <u>Extrusive</u> (volcanic): rocks formed on surface from quickly cooling lava, have smaller (fine-grained) crystals
- Color: color of igneous rocks are clues to mineral composition • Felsic: light-colored rocks, high silica content
 - Mafic: dark-colored rocks, low silica content

Igneous Rock

- Common igneous rocks: • granite (used for building material)
- pumice (abrasive)
- obsidian (ancient tools/weapons)





Sedimentary Rock

- Sedimentary rocks formed by a series of processes:
 - Erosion: water, wind, and ice loosen and carry away sediment
 - Deposition: sediment settles out of water, wind, ice in layers
 - <u>Lithification</u>: (turn to stone)
 <u>Compaction</u>: pressing of sediments by weight of many layers
 - <u>Cementation</u>: dissolved minerals glue particles of sediment together



Sedimentary Rocks

Common sedimentary rocks:
 Sandstone (building material)
 Limestone (building material)
 Flint (stone tools/weapons)





Metamorphic Rock

- Metamorphic rocks formed by other rocks undergoing intense heat and pressure (metamorphism).
- <u>Foliated Rocks</u>: rocks with grains arranged in layers or bands
- <u>Nonfoliated Rocks</u>: rocks with grains arranged randomly





