**Unit 3-Rock Cycle & Igneous Rocks**

**Objectives and Vocabulary**

**Objectives:**

* Distinguish between a mineral and a rock
* Identify and differentiate between the three major types of rocks
* Describe the rock cycle
* Provide missing links in a given rock cycle diagram
* List the forces that power the earth’s rock cycle
* Compare and Contrast intrusive and extrusive igneous rocks
* Differentiate the characteristics of mafic and felsic magmas
* Understand the traits of high viscosity magmas and low viscosity magmas
* Describe the basic composition of mafic and felsic magmas
* List the types of magma formed at plate boundaries
* Explain how the rate of cooling affects an igneous rock’s texture
* Describe the features of the main igneous rock textures
* Describe the features of the main igneous rock compositions
* Classify igneous rocks according to texture and composition using an ID guide
* Explain the importance of Bowen’s Series reactions
* Use a Bowen’s Series reactions diagram to predict igneous rock types



**Vocabulary:**

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| Rock | Igneous rock | Sedimentary rock | Metamorphic rock |
| Rock cycle | Magma | Weathering | Lava |
| Sediments | Viscosity | Mafic | Felsic |
| Porphyritic texture | Pyroclastic texture | Phaneritic texture | Aphanitic texture |
| Glassy Texture |  |  |  |