

## **Rocks and Minerals Study Guide**

### **K-12 Science Standards: (see notes and minerals activity sheet)**

1. Describe how minerals make up rocks.
2. Describe how rocks and minerals are formed and classified.
3. Describe the rock cycle and explain there are sedimentary, igneous, and metamorphic rocks that can be identified by different properties.
4. Explain that rocks are made of one or more minerals.  
Identify minerals by their physical properties.

### **Three Types of Rocks: (see notes)**

**Sedimentary**-rocks formed by the accumulation of sediment built up in layers and fused together to form rock...classified by the grain size (course, medium, fine grain)

**Igneous**- rocks formed from the cooling of magma or lava...classified by the crystal size (large crystals-cooled slowly, small crystals-cooled quickly)

**Metamorphic**-rocks transformed by heat and pressure...can be either igneous or sedimentary and are characterized by the bands and streaks

### **Minerals: (see minerals activity sheet)**

Know how to identify minerals by the following:

Streak- the color left behind on a piece of tile when rubbed

Color-color of the mineral

Hardness-how hard the mineral is (Mohs hardness scale)

Luster-the way light shines off the mineral (metallic or nonmetallic)

Cleavage-how the mineral breaks

