Review: Minerals and Rocks

Directions: Carefully read over the checklist of items that you need to know for the "Minerals and Rocks" test. Be sure to attend extra help if you have any questions.

MINERALS

- ☐ Terms to Know: luster, cleavage, fracture, hardness, streak
- ☐ Internal Arrangement of Atoms
- ☐ The basic mineral structure is a silicon-oxygen tetrahedron
- ☐ Earth Science Reference Tables: Properties of Common Minerals

IGNEOUS ROCKS

- ☐ Terms to Know: vesicular, volcanic, plutonic, intrusive, extrusive
- ☐ The longer the cool the bigger the jewel
- ☐ Very Coarse and coarse grain cooled inside the Earth
- ☐ Fine grain and Glass cool outside the Earth
- ☐ Earth Science Reference Tables: Scheme for Igneous Rock Identification
- ☐ Formation: melting → magma → solidification

SEDIMENTARY ROCKS

- ☐ Terms to Know: clastic, fragmental, fossil, precipitates, evaporites, lithification
- ☐ Other terms for Sediment: clastic, fragmental, particles, pieces
- ☐ Earth Science Reference Tables: Relationship of Transported Particle Size to Water Velocity
- ☐ Form in layers
- ☐ Could contain fossils
- ☐ Earth Science Reference Tables: Scheme for Sedimentary Rock Identification
- ☐ Formation: weathering & erosion → sediment → deposition & burial → cementation and/or compaction

METAMORPHIC ROCKS

- ☐ Terms to Know: foliated, nonfoliated, banding, mineral alignment, banding
- ☐ Regional metamorphism [large scale] form by heat and pressure
- ☐ Contact metamorphism [small scale] form from just heat
- ☐ Earth Science Reference Tables: Scheme for Metamorphic Rock Identification
- ☐ Formation: heat and/or pressure

THE ROCK CYCLE

- ☐ Igneous: melting → magma → solidification
- ☐ Sedimentary: weathering & erosion → sediment → deposition & burial → cementation and/or compaction
- ☐ Metamorphic: heat and/or pressure
- ☐ Driving Forces: heat from Earth's interior, energy from the Sun, gravity
- ☐ Earth Science Reference Tables: Scheme for Metamorphic Rock Identification