

## Rocks and Soil Test Study Guide

Vocab: igneous, metamorphic, sedimentary, foliated, non-foliated, cementation, compaction deposition, erosion, weathering, intrusive, extrusive, clastic, vesicular (holes), oxidation, contact vs regional metamorphism

*Textbook Chapter 3*

### Topics

- How three types of rocks form
- How rocks become other rocks (flow chart/rock cycle and POGIL)
- What rocks are made of

### *Igneous Rocks*

- Definition of an igneous rock
- How rate of cooling affects crystal/grain size
- Differences between intrusive and extrusive (know the name of an example of each type)
- Difference between magma and lava

### *Sedimentary Rocks*

- Definition of a sedimentary rock
- Difference between clastic and chemical
- Difference between compaction and cementation
- Where they tend to form
- Know an example of a sedimentary rock

### *Metamorphic Rocks*

- Definition of a metamorphic rock
- Difference between foliated and non foliated
- Difference between contact and regional metamorphism
- Where metamorphic rocks form
- How metamorphic rocks are classified
- Know an example of a sedimentary rock

### *Weathering and Erosion*

- Know definition of weathering and definition of erosion
- Know types of weathering
- Know difference between chemical and mechanical weathering
- Know types of erosion (forces that do it)

### *Soil*

- Know the relative particle sizes of sand, silt and clay
- Know how to use the texture triangle to solve problems
- Know how to use the soil container with water to figure out percentages of sand, silt and clay
- Know why soil texture is important