NAME: _____

Review Outline: Minerals and Rocks Test

1. **Minerals**

    A. What is a mineral?
        - Definition of a mineral (5 requirements that define minerals)
        - 3 main ways minerals can form (example → solidification of magma)

2. **Mineral Identification**

    Mineral Properties
        - color
        - luster
        - streak
        - hardness
        - cleavage
        - fracture
        - acid test

3. **Earth Science Reference Tables Page 16 – Properties of Common Minerals**

    A. Know how to use page 16 of the ESRT

4. **3 Types of Rocks**

    A. What is a rock?
        - Definition (One or more minerals grouped together)
        - 3 main types defined by origin – Igneous, Sedimentary, and Metamorphic
        - Know how to classify by origin, mineral content, and texture

    B. What is the rock cycle?
        - How do the 3 rock types form, change, and get recycled?
        - Know how to use the Rock Cycle diagram from ESRT page 6

5. **Igneous Rocks**

    A. What is an igneous rock?
        - Formation from felsic or mafic magma/lava by extrusive and intrusive processes.
        - Conditions that existed when a rock formed can be inferred from the rock's mineral content and texture. (Example → small crystals = extrusive rock)
        - Classification and description (formation environment, texture, composition, etc…)
        - Know how to use the Igneous Rock diagram on ESRT page 6.

6. **Sedimentary Rocks**

What is a sedimentary rock?

- Formation – burial, compaction, cementation, precipitation of sediments
- 3 types of sedimentary rocks – clastic, chemical, organic
- Know how to use the Sedimentary Rock diagram on ESRT page 7.

7. **Metamorphic Rocks**

A. What is a metamorphic rock?

- Definition of Metamorphism
- Metamorphic rocks and their parent rocks
- Formation of metamorphic rocks – regional (high heat and pressure) vs. contact (high heat and low pressure)
- Classification and description (texture, grain size, degree of metamorphism, etc…)
- Grade of Metamorphism (low to high)
- Know how to use the Metamorphic Rock diagram on ESRT page 7.

8. **Density**

A. Know how to calculate density using ESRT page 1.
B. Know that for any uniform substance, if you change its volume (cut it in half), its density will not change.