

Read lab manual chapters 2 tectonics, 3 minerals, 4. rock cycle; define the following terms or answer questions. Use internet search tools as needed.

Lab 2: Review of Minerals, Rocks, and Tectonics

2-1. Distinguish the difference between a rock and mineral (define each, and briefly discuss the difference).

2-2. Define the following mineral property terms:

A. Translucent

B. Streak

C. Luster

D. Fracture

E. Cleavage

F. Hardness

G. Specific Gravity

2-3. Summarize the distinguishing physical properties of the following minerals

A. Quartz

B. Calcite

C. Halite

D. Potassium Feldspar

E. Plagioclase Feldspar

F. Clay

G. Muscovite

2-4. List the three main classes of rocks and discuss the general processes which form them.

2-5. Draw a diagram of the rock cycle, and label all components.

2-6. What is lithification?

A. List and discuss two processes of lithification.

2-7. Sketch and label Bowen's Reaction Series (by the way, what is Bowen's Reaction Series?)

2-8. Define the following plate tectonic terms, USE DIAGRAMS / DRAWINGS to illustrate your answers.

A. Lithospheric plate

B. Asthenosphere

C. Divergent Plate Boundary (spreading center)

D. Convergent Plate Boundary (subduction zone)

E. Transform Plate Boundary

2-9. What types of plate boundaries are associated with earth quakes?

2-10. What types of plate boundaries are associated with volcanism?