

Mrs. Whittaker: Advanced Earth Science
Unit 5: Reading and Note Guide

Chapters 4 - 6

Assignment 1

Read pgs. 76 - 83

1. What are the five characteristics of a mineral?
2. What is the difference between organic and inorganic materials?
3. What exactly is a crystal?
4. There are _____ minerals found on the earth. About _____ minerals are commonly found on the earth.
5. List the eight elements that form 98% of the Earth's crust.
6. What are the two most abundant elements in Earth's crust?
7. What two elements compose silicate minerals?
8. What type of minerals are the most abundant on Earth?

9. A silica tetrahedron is a three-dimensional shape structured like a pyramid.
A. What is the ratio of silicon atoms to oxygen atoms in this structure?
B. Why is this structure important?

10. List the seven major mineral groups. Provide the main chemical elements that form that group and an example of a mineral for each group.

<u>Mineral group</u>	<u>element(s)</u>	<u>example</u>
i.e. Silicates	silicon, oxygen	quartz

11. How are minerals like copper and silver different from minerals like calcite and hematite?