

Earth Science Chapter 3: Study Guide

Section 1

- Definitions

Mineral	Streak	Cleavage
Inorganic	Luster	Fracture
Crystal	Mohs Hardness scale	

- Be able to list the five characteristics that all minerals must have
- Be able to list the eight identifying characteristics of minerals
- Be able to describe the tests for streak and hardness
- Be able to determine the hardness of a mineral
- Know at least two types of luster
- Be able to calculate the density of a mineral
- Be able to recognize the six categories of crystal systems
- Be able to list at least two special properties

Section 2

- Definitions

Geode	Magma	Solution
Crystallization	Lava	vein

- Understand how geodes form
- Know what size crystals form from rapid and slow cooling
- Know that minerals can form from evaporation and hot water solutions

Section 3

- Definitions

Gemstone	Smelting
Ore	alloy

- Be able to identify why gemstones are valued
- Be able to identify at least two uses of gemstones
- Be able to identify at least two gemstones
- Be able to identify at least uses of metals
- Be able to identify at least two metals
- Be able to identify at least two other minerals and where they can be found
- Understand the prospecting, mining and smelting process of a mineral
- Know the timeline of the advances in metal technology (pg 82-83)
- Be able to list and define the three types of mines
- Be able to define what a prospector does
- Understand the smelting process
- Be able to define coke, slag and molten material
- Know that further processing of minerals takes place