Ch. 3 Minerals Chapter Review

Objectives:

- 1. List five characteristics all minerals share.
- 2. Give examples of the three ways minerals form.
- 3. List the physical properties used to identify minerals.
- 4. Describe how physical properties such as hardness and streak are used to identify minerals.
- 5. Apply your knowledge of the Mohs Hardness Scale to identify minerals and their hardness.
- 6. Discuss characteristics gems have that make them different from and more valuable than other minerals.
- 7. List the conditions necessary for a mineral to be classified as an ore.
- 8. List the properties of titanium that make it so useful in biomedicine, sporting equipment, and other applications.
- 9. Identify the minerals that are mined for titanium.
- 10. Using methods such as acid tests, color, streak, hardness, and luster identify common minerals.
- 11. Identify common ores and gems.
- 12. Explain the importance of minerals, ores, and gems in our lives.

Vocabulary:

vocabulary:			
Minerals	Saturated	Breakage	
Inorganic	Silicates	Cleavage	
Organic	Hardness	Fracture	
Crystal Shapes	Mohs Hardness Scale	Gems	
Cubic	Knoops Hardness Scale	Ores	
Tetragonal	Luster	Titanium	
Orthorhombic	Metallic	Ilmenite	
Monoclinic	Non-Metallic	Rutile	
rs ! 1! !	\sim 1		

Triclinic Color
Hexagonal Streak
Evaporation Streak Plate

Precipitation

Topaz (8)

Examples (Understand each of these minerals as given in their examples in notes)

Coal	Corundum (9)
Rock Salt (Halite)	Pyrite
Talc (1)	Magnitite
Diamond (10)	Amethyst
Gypsum (2)	Ruby
Apatite (5)	Sapphire
Fluorite (4)	Aquamarine
Quartz (7)	Emerald
Calcite (3)	Beryl
Feldspar (6)	Titanium