Lab 09 - Key

1 & 2. Galena - lead-gray - medium in hardness
Hematite - brick-red - soft in hardness
Magnetite - black - hard in hardness
Pyrite - greenish-black - hard in hardness

- 3. Galena, with cubic cleavage
- 4. Pyrite has a cubic crystal form; it's how the mineral grew. Galena has a cubic crystal form; it's how it breaks.
- 5. A high specific gravite (density)
- 6. several possible answers based on the chart
- 7. basal or one direction of cleavage
- 8. Talc
- 9. Calcite rhombic cleavage
 Fluorite octahedral cleavage
 Apatite fracture (no cleavage)
- 10. several possible answers based on the chart
- 11. cleavage forms smooth, parallel surfaces when broken; fracture has rough, uneven surfaces when broken
- 12. several possible answers based on the chart
- 13. Minerals need both time and space in order to form large, visible crystals.
- 14. Orthoclase, Plagioclase, Augite, Hornblende