

Lab 01 - Physical Properties - Key

1. Glass is not crystalline and so is not made up of minerals
2. No, some metallic minerals are dull like a rust or tarnish.
3. Streak is useful for minerals with a metallic luster.
4. No because diamond is harder than a streak plate.
5. talc, gypsum
6. apatite, orthoclase, quartz, topaz, corundum, diamond
7. Cleavage breaks along smooth planes of atomic weakness; fracture breaks unevenly
8. Directions of weak atomic bonds.
9. True, hard minerals have no planes of weakness and no cleavage.
10. Cleavage breaks along smooth planes of atomic weakness; crystals break with fracture
11. No, you can't make little crystals by breaking big crystals.
12. True, that is the definition of crystal form.
13. Metallic luster minerals have a higher specific gravity (most metals are dense).
14. Most minerals come in more than one color.
15. When pure, quartz is perfectly clear. It's color may vary greatly due to the type of impurity.