

Note-taking Worksheet (continued)

- E. Streak is the color of a mineral in powdered form; but the streak test is useful only for minerals softer than the streak plate.
- F. The way a mineral Breaks can be a distinguishing characteristic.
1. Minerals with Cleavage break along smooth, flat surfaces.
 2. Minerals with Fracture break with uneven, rough, or jagged surfaces.
- G. Some minerals have unique properties that involve light or magnetism.

Section 3 Uses of Minerals

- A. Gems—rare and beautiful minerals that are highly prized
1. The Cullinan diamond and the Hope diamond are famous Historical gems.
 2. Gems have Industrial applications in abrasives, lasers, and electronics.
- B. Minerals can contain other useful Elements.
1. An ore is a mineral or rock containing a substance that can be mined at a profit.
 2. Elements must be Refined, or purified, from ores.
 3. Some elements dissolve in fluids, travel through weaknesses in rocks, and in those weaknesses form mineral deposits called Vein mineral deposits.
 4. Titanium is a useful element derived from the minerals ilmenite and rutile.