Minerals Softer Than Glass

**Good Streak**
- Red to red-brown streak
- Dark gray to black streak
- Greenish black streak
- Yellow-brown streak

**Metallic Luster**
- Graphite
- Chalcopyrite
- Limonite

**Non-Metallic Luster**
- Cleavage Excellent
- Cleavage Not Obvious
- No Cleavage

**Harder Than Fingernail**
- Red to red-brown streak
- Dark gray to black streak
- Greenish black streak
- Yellow-brown streak

**Softer Than Glass**
- 1: Greenish-white; pearly to greasy; often small crystal masses
- 2: White; soapy feel; dull, earthy. A type of clay
- 3: White, also pink; three distinct varieties; all cleavages rarely seen

- Hematite
- Sphalerite
- Chlorite
- Bauxite
- Talc
- Kaolinite
- Gypsum

**Cleavage**
- 1: Basal; clear; perfect cleavage, but often in masses of tiny crystals
- 2: Cubic; perfect cleavage, but often in masses of tiny crystals
- 3: Cubic; perfect cleavage, but often in masses of tiny crystals
- 4: Cubic; perfect cleavage, but often in masses of tiny crystals
- 5: Cubic; perfect cleavage, but often in masses of tiny crystals
- 6: Dodecahedral; 12 sides
- Octahedral; 8 sides
- Cubic; 6 sides; right angles
- Rhombohedral; 6 sides; not right angles

**Streak**
- Dark gray to black streak
- Greenish black streak
- Yellow-brown streak
- Black, very shiny, flat, opaque sheets; can be peeled
- Dark green; flexible sheets; but often in masses of tiny crystals

**Color**
- White usually, but also pink; three distinct varieties
- Reddish-brown to Green, prismatic crystals; poor basal cleav.
- Dark yellow-brown to black; resinous luster
- Dark green; flat, flexible sheets; but often in masses of tiny crystals
- Yellow to dark brown; sometimes earthy

**Minerals**
- Hematite
- Graphite
- Chalcopyrite
- Limonite
- Talc
- Kaolinite
- Gypsum

**Hardness**
- 1: Red to purple to black; dull earthy appearance
- 2: Black, greasy feel, smudges easily, writes on paper
- 2.5: Shiny silver-gray; cubic cleavage; very heavy
- 3.5-4: Brassy yellow; may be tarnished to bronze or iridescent
- 5: Yellow to dark brown; sometimes earthy, soft and crumbly

**Other Characteristics**
- Metal, or dull, like tarnished metal, or even powdery like rust
- Sometimes earthy
- Earthy, soft and crumbly
- Often masses of small crystals
- Practically, cleavage is rarely seen in lab specimens; use color
- Often masses of small crystals
- Fragile and easily broken
- Often in masses of small crystals
- Usually, but also pink; three distinct varieties
- Practically, cleavage is rarely seen in lab specimens; use color
- Clear to transluscent; perfect cubic cleavage, salty taste
- White other pale colors; HCl reaction slow; or only powdered
- The perfect basal cleavage which is always visible is the distinguishing feature for these minerals
- White; soapy feel; dull, earthy
- White, also pink; three distinct varieties; all cleavages rarely seen
- Cleavage is very hard to see in some minerals because it is poorly developed or the crystals are small; these minerals have no cleavage at all
- Cleavage is hard to see in some minerals because it is poorly developed or the crystals are small; these minerals have no cleavage at all
- Cleavage is rare in lab specimens; use color
- White; soapy feel; dull, earthy
- Red to red-brown streak
- Dull earthy appearance; Red to red-brown streak