

Minerals

Picture Vocabulary

6.6C
Matter and Energy

Mineral



Some 3-D crystal formation is easily observable



Some 3-D crystal formation is difficult to observe without the aid of very high magnification



A naturally formed, inorganic solid that has a specific chemical formula and repeating three-dimensional structure

Luster

Silky Luster



Resinous Luster



Metallic Luster



Glassy Luster



Dull or Earthy Luster



The way the surface of a mineral reflects light; either metallic or non-metallic such as, silky, dull, glassy, or resinous

Streak

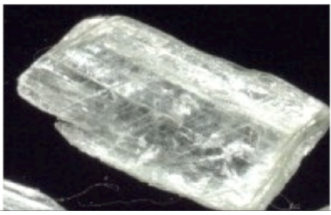
None of the streaks shown are for Fluorite (below). Fluorite has a white streak.



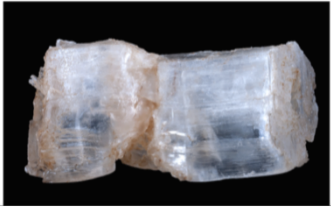
Streak plate

The color of a mineral in powdered form

Hardness



1. Talc
Easily scratched by a fingernail



2. Gypsum
A finger nail will scratch it with pressure



3. Calcite
Hard to scratch with a copper penny



4. Fluorite
Easily scratched with a knife

5. Apatite
A knife blade will scratch it with pressure



6. Orthoclase
Easily scratches glass

7. Quartz
Easily scratches steel



8. Topaz
Easily scratches Quartz



9. Corundum
No common test



10. Diamond
No common test



A measure of scratch resistance of various minerals; when the ability of harder minerals to scratch softer minerals is used for identification

Conductivity



the filaments in
a light bulb
conduct
electrical
current,
causing it to
light up

A property that describes if heat or electrical charges pass through the material easily



Malleability



aluminum foil is
considered highly
malleable

A property that describes the ability of the material to be rolled or hammered into thin sheets

Magnetic Attraction



Magnetic force exerted by oppositely charged particles, tending to draw or hold the particles together

Inorganic



Glass
Stirring Rod



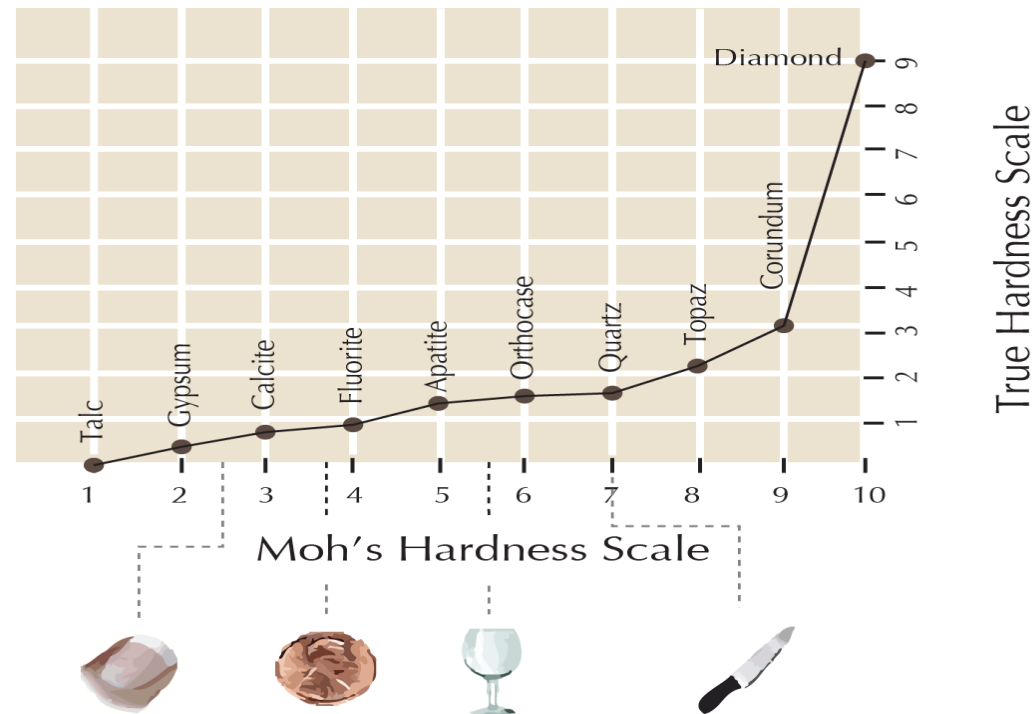
All matter that does not have the chemical and structural characteristics of living matter

Mineral Crystal



Geometric shape of a mineral that reflects its internal crystalline arrangement of atoms

Mohs Hardness Scale



A set of ten minerals used as a standard of hardness against which an unknown mineral's hardness is compared.