

## Minerals - Chapter 7 in The Good Earth: Introduction to Earth Science

What is a mineral? (What are the 5 parts of the definition of a mineral?)

Minerals are:

1. naturally occurring
2. Generally inorganic
3. Homogeneous solid
4. Specific chemical composition
5. Ordered crystalline structure

What is a rock? (Know that minerals are the building blocks of rocks)

What are some physical and chemical properties of minerals? Optical? Strength? Other?

Luster: the appearance of minerals in reflected light

Color: easy to see, but not reliable for identification

Streak: the color of a mineral in its powdered form

Crystal Shape (habit): the characteristic shape of a crystal or aggregate of crystals

Mineral Hardness: resistance of a mineral to abrasion or scratching

Mineral Cleavage: the tendency to break (cleave) along planes of weak bonding

Fracture: minerals with equally strong bonds have an absence of cleavage but produce an uneven surface

Tenacity: how a mineral responds to stress

Density: defined as mass per unit volume

Specific gravity: is a related measure and more frequently used by mineralogists

Taste

Feel

Magnetism

Double refraction: transparent calcite

Effervescence: carbonates fizz in reaction to dilute hydrochloric acid

How do minerals form?

Crystallization from a liquid, precipitation from a solution or gas, or by deposition

How are they destroyed?

Melting, dissolving, chemical reaction

What are the four most common elements in the Earth's crust?

Oxygen, silicon, iron, aluminum

What is the silicon-oxygen tetrahedron? What is the net charge of an individual silicon-oxygen tetrahedron?

Understand the various structures for the silicate minerals, mainly concentrate on how the strength of minerals increases with the complexity of the tetrahedra structure

- 1) isolated silicate structure - e.g., mineral olivine
- 2) single-chain structure - e.g., mineral pyroxene
- 3) double chain structure - e.g., mineral amphibole
- 4) sheet structure - e.g., mica minerals
- 5) framework structure - e.g., quartz, feldspars

What are chlorides? Halite is an example of a chloride mineral

What are oxides? Hematite is an example of an oxide mineral

What are sulfides? Pyrite is an example of a sulfide mineral

What are carbonates? Calcite is an example of a carbonate mineral

What are native elements? Sulfur is an example of a native element

What are sulfates? Gypsum is an example of a sulfate mineral

What is the state mineral of Delaware? Sillimanite

## Rocks (Igneous, Metamorphic, & Sedimentary) - Chapter 7 in The Good Earth: Introduction to Earth Science

What is a rock?

Know that rocks are subdivided into three major groups based upon their mode of origin. Be

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