

EARTH SCIENCE

INTRODUCTION

COMPONENTS OF STUDY

1. Geology: Both physical & historical
2. Meteorology: Weather & climate
3. Oceanography: The oceans
4. Astronomy: What is external to the atmosphere

THE FOUR SPHERES (See The Water Cycle)

1. Lithosphere: The solid earth
2. Hydrosphere: The liquid earth
3. Atmosphere: The gaseous earth
4. Biosphere: Where life exists

CONCERN'S IN OUR PHYSICAL ENVIRONMENT

1. Resources: Water, soil, metallic & non-metallic elements, sunlight, wind, etc.
2. Per capita use of metallic and non-metallic elements is 11 tons per year
3. Renewable vs. non-renewable resources
4. Environmental and population problems

MINERALS

- A mineral is a naturally occurring, inorganic, solid material with a definite atomic structure.
- An ore is a useful metallic mineral.

Atoms and Periods

1. Atom: In ancient Greek, means "too-small," i.e., the smallest particle of matter.
2. Atoms are composed of neutrons, protons and electrons.
3. Atomic number: Number of protons in nucleus.
4. Atomic weight: Average weight of an atom.
5. Isotopes: Formed of an element with identical atomic numbers, but different numbers of neutrons in the nucleus.
6. Forces: Strong, weak, electromagnetic and gravity.
7. Properties of Minerals:
 - 1. Luster: Appearance or quality of light from surface
 - 2. Color: Nature of light and cause of color
 - 3. Streak: Color of material in powdered form
 - 4. Hardness: Mohs' Scale (See Figure below).
- Scratch Test: Higher numbered materials can scratch lower numbered materials.
5. Shape is determined by cleavage, crystal forms and fracture.
6. Specific Gravity:
 - 1. The ratio of the weight of a mineral to the weight of an equal volume of water.
 - 2. Density of water = 1 g/cm³ and 1 kg/m³.
i.e., lead = 7.7, aluminum = 2.7, iron = 7.8

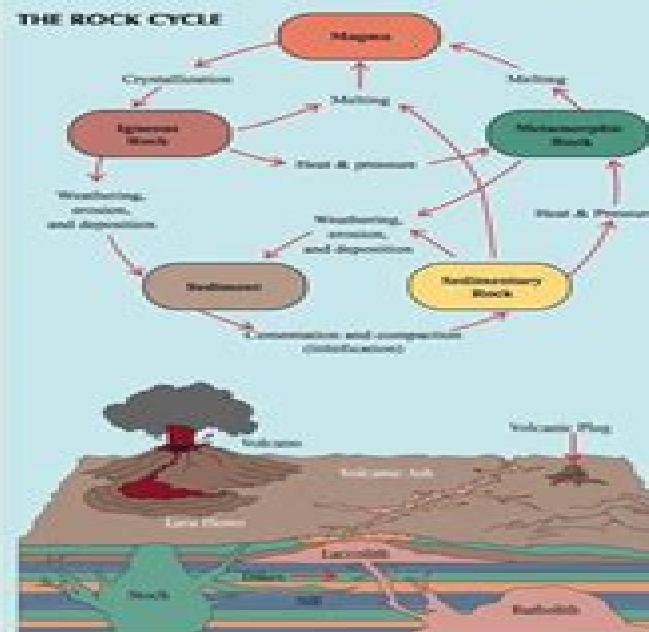
MOHS' SCALE		STANDARD
10	10	Diamond
9	9	Corundum
8	8	Topaz
7	7	Quartz
6	6	Feldspar
5	5	Apophyllite
4	4	Fluorite
3	3	Calcite
2	2	Corundum
1	1	Talc

Mineral Groups

1. Silicates: Minerals with silicon and oxygen.
 - a. Silicate is a semi-metal which forms a pyramidal-shaped structure with oxygen.
 - b. Other forms include single tetrahedrons (olivine), chains (sapphires), sheets (mica), 2-D structures (feldspars and quartz).
2. Non-Silicates
 - a. Make up one-fourth of continental crust.
 - b. Carbonates: Minerals with carbon and oxygen including calcite, from which we procure limestone (rocks) and marble (decorative slabs).
 - c. Oxides: Oxygen based solids, i.e., iron
 - d. Sulfides (S), sulfates (SO₄), halides (Cl⁻, F⁻)
 - e. Halite: Mineral form of salt
 - f. Gypsum: Plaster, calcium
 - g. Native metals: Iron, zinc, gold, silver, nickel

ROCK TYPES

THE ROCK CYCLE



IGNEOUS ROCKS

A. Formation

1. Extrusive igneous rocks are formed in volcanic eruptions at surface.
2. Intrusive (or plutonic) igneous rocks are produced within the earth.
3. Magma
 - a. Consists mainly of silicate materials
 - b. Has gases, such as water vapor
 - c. Originates from as deep as 200 km
 - d. Differs in rate of cooling, chemical composition, and amount of gases.
 - e. Produces intrusive (plutonic) igneous rocks
4. Lava
 - a. Similar to magma
 - b. Most gaseous elements have escaped
 - c. Produces extrusive (volcanic) igneous rocks

B. Structure

1. Crystallization (ordered pattern of ions)
 - a. The rate of cooling strongly affects crystal size
 - b. Slow cooling = large crystals
 - c. Quick cooling = small crystals
2. Amorphous (unordered pattern of ions)
 - a. Occurs with instant cooling (quenching)
 - b. Produces rocks referred to as glass

C. Classifying Igneous Rocks

1. By texture, size and arrangement of interlocking crystals
 - a. Fine-grained
 - i. Form at surface or within upper crust
 - ii. Openings left by gas bubbles are called vesicles
 - b. Coarse-grained: Formed deep within the interior
 - c. Porphyritic: Large crystals imbedded in matrix of smaller crystals
2. By mineral composition
 - a. Depends on composition of magma and cooling
 - b. Same magma can create rocks of varying mineral content
 - c. As magma cools, certain minerals crystallize first (at very high temperatures).

METAMORPHIC ROCKS

A. Formation

1. Metamorphic: To change form
2. Regional metamorphism: Material under extreme stresses, high temperatures
3. Contact (thermal) metamorphism: Changes caused by proximity to magma
4. Low-grade metamorphism: Shale becomes slate
5. High-grade metamorphism: Fossils become rock
6. Often form during mountain building
7. Metamorphic rocks are harder than sedimentary rocks
8. Metamorphism changes texture
9. Low-grade metamorphism makes materials more compact, more dense
10. Foliated texture: Particles of material are brought into line with one another

B. Agents of Metamorphism

1. Heat
 - a. Most important agent
 - b. Provides energy for chemical reactions
 - c. For example: Clay recrystallizes into a mineral at great temperature
2. Pressure
3. Chemical Activity: Most common chemical agent is water

C. Types of Metamorphic Rocks

1. Hornfels: Fine grained, dark flinty rock with randomly arranged minerals
2. Shale: Fine grained, often grey, foliated rock with mostly strong cleavage, planes of rocks aligned by pressure
3. Marble: Granular or sugary-textured rock formed from limestone
4. Phyllite: Silky, foliated rock more coarsely grained than slate
5. Schist: Foliated rock, more coarsely grained, and of higher metamorphic grade than phyllite
6. Gneiss: Foliated, banded rock of the highest metamorphic grade
7. Quartzite: Very hard, granular quartz rock, formed from sandstone

SHAWIN'S REACTION SERIES

If a mineral, which has already formed, remains in the magma, it will react with the remaining magma to produce the next mineral in the sequence. For example, olivine forms first, followed above reacts with remaining magma to form pyroxene.

A. Higher Side of the Shawin Series

1. Calcium-rich parts of the magma form small crystals of olivine
2. These react with sodium in the magma to become more and more sodium rich.

B. End of Cooling

1. When everything is almost cool, remaining magma will have high silicon content, and quartz will form.
2. When cooling is complete, everything that cooled at the same time will usually be close to one another (feldspar, mica, and quartz cool later over another to make granite).



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