

EARTH SCIENCE

INTRODUCTION

COMPONENTS OF STUDY

1. **Geology:** Both physical & historical
 2. **Metereology:** 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

CONCERNS 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.

A. Atoms and Forces

1. **Atoms**, in ancient Greek, means "no-cut," i.e., the Ancients believed the atoms to be the smallest particle of matter.
2. **Atoms** are composed of neutrons, protons and electrons.
 - a. **Atomic number:** Number of protons in nucleus
 - b. **Atomic weight:** Average weight of an atom
 - c. **Isotope:** Forms of an element with identical atomic numbers, but different numbers of neutrons in the nucleus
3. **Forces:** Strong, weak, electromagnetic and gravity

B. 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:** Moh's Scale (See Figure below)
5. **Scratch Test:** Higher numbered materials can scratch lower numbered materials.
6. **Shape:** is determined by cleavage, crystal form and fracture.
7. **Specific Gravity:**
 - a. The ratio of the weight of a mineral to the weight of an equal volume of water
 - b. **Density of water = 1gm/cm³ = 1gm/ml.**
i.e., **gold = 22, aluminum = 2.7, common = 2.2**

MOH'S SCALE

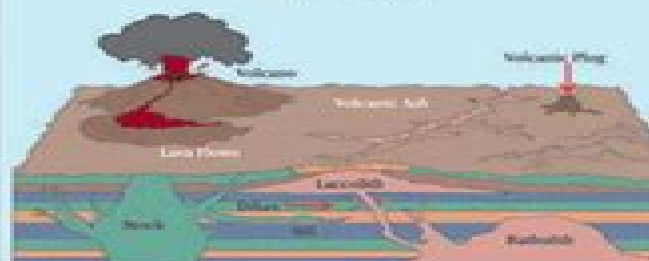
Hardness	Mineral
10	Diamond
9	Corundum
8	Topaz
7	Quartz
6	Feldspar
5	Apatite
4	Fluorite
3	Calcite
2	Gypsum
1	Talc

C. Mineral Groups

1. **Silicates:** Minerals with silicon and oxygen
 - a. **Silicon** is a semi-metal which forms a pyramid-shaped structure with oxygen.
 - b. **Oxygen** forms include single tetrahedrons (olivine), chains (pyroxene, amphibole, mica), 3-D structures (feldspar 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 (roads) 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. **Extensive 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
4. **Lava**
 - a. Similar to magma
 - b. Most gaseous elements have escaped
 - c. Produces extensive (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 intense stresses, high temperatures
3. **Contact (thermal) metamorphism:** Changes caused by proximity to magma becomes slate
4. **Low grade metamorphism:** Slate becomes slate
5. **High grade metamorphism:** Fossils become rock
6. **Crises form** during mountain building
7. Most metamorphic rocks are harder than sedimentary rocks.
8. **Metamorphism changes texture.**
9. Low-grade metamorphism makes material 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. **Schist:** Fine grained, dark flinty rock with randomly arranged minerals
2. **Slate:** Fine grained, often gray, foliated rock split easily along cleavage, planes of mica flakes 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

BOWEN'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; olivine then reacts with remaining magma to form pyroxene.*

A. Right Side of the Bowen Series

1. Calcium rich parts of the magma form small crystals of feldspar.
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 silicone 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 near one another to make granite).



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Scott Foresman Science 2006 Quick Study Grade 4 Timothy Cooney,2005-01-07 Scott Foresman Science 2006 components for Grade 4 *Earth Science*,1964 *Glory Be* Danielle Arceneaux,2023-10-03 The first in a vivid and charming crime series set in the Louisiana bayou introducing the hilariously uncensored amateur sleuth Glory Broussard Perfect for fans of Richard Osman's Thursday Murder Club A Washington Post Best Mystery Novel of the Year It's a hot and sticky Sunday in Lafayette Louisiana and Glory has settled into her usual after church routine meeting gamblers at the local coffee shop where she works as a small time bookie Sitting at her corner table Glory hears that her best friend a nun beloved by the community has been found dead in her apartment When police declare the mysterious death a suicide Glory is convinced that there must be more to the story and with her reluctant daughter with troubles of her own in tow launches a shadow investigation in a town of oil tycoons church gossips and a rumored voodoo priestess As a Black woman of a certain age who grew up in a segregated Louisiana Glory is used to being minimized and overlooked But she's determined to make her presence known as the case leads her deep into a web of intrigue she never realized Lafayette could harbor Danielle Arceneaux's riveting debut brings for an unforgettable character that will charm and delight crime fans everywhere and leave them hungry for her next adventure

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Immortal in Splashed Ink Lonnie M. Garber,2021-08-05 A baffling divorce on Long Island a mysterious disease in Malaysia and a preeminent Chinese

scientist with ties to Taiwan and a story to tell collide in an explosive and timely tale of scientific and political espionage Moving between New York China and Taiwan Immortal in Splashed Ink is an international thriller about ordinary people drawn into a global plot involving powerful players and worldwide repercussions NYU science professor Jack Cedar is stunned to be accused of planning to kidnap his own children and served with a restraining order that bars him from leaving the country to deliver an important lecture to a prestigious international science federation He furiously confronts Aruba Jones the experienced and savvy divorce lawyer who prepared the legal papers claiming that he has never been married has no children and has never even heard of Aimee Cedar the enigmatic woman claiming to be his wife When Aimee vanishes and Jack and Aruba become suspects in a deadly terrorist incident the unlikely pair are thrown together in a desperate effort to unravel the bizarre chain of events that has ensnared them Across the world renowned Chinese scientist and high ranking Communist Party member Dr Pao Den Chin identifies scientific evidence of immense global importance When the Communist Party prohibits investigation of his groundbreaking discovery and uses brutal methods to eradicate all evidence of it the melancholy and introspective Den Chin conceives a plan to ensure that his research will continue

Harcourt School Publishers Science California ,2005-11 **Computer Applications in the Earth Sciences** Daniel F. Merriam,1981-08

Earth Science (Speedy Study Guide) Speedy Publishing,2014-12-28 Earth Science is a fascinating subject that most kids enjoy learning about A study guide will break the course down and show different aspects that are being taught Course work will be arranged accordingly and areas that are important will be targeted Kids will find this organization helpful when studying Using a study guide is an important skill to learn and having one for Earth Science will increase student s focus

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