

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

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. **Atom:** In ancient Greek, means "un-cut," i.e., the Ancients believed that 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)
Scratch Test: Higher numbered materials can scratch lower numbered materials.
5. **Shape** is determined by cleavage, crystal form and fracture.
6. **Specific Gravity:**
 - a. The ratio of the weight of a mineral to the weight of an equal volume of water.
 - b. **Density of water = 1 gm/cm³ = 1 gm/ml.**
Ex., gold = 19.3, aluminum = 2.7, carbon = 2.2

MOH'S SCALE

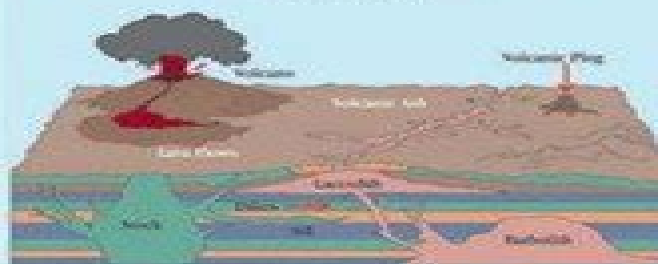
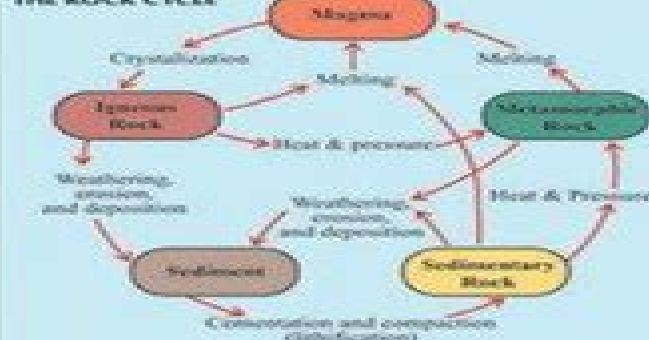
Hardness	Mineral
10	Diamond
9	Corundum
8	Topaz
7	Quartz
6	Feldspar
5	Apatite
4	Fluorite
3	Calcite
2	Gypsum
1	Talc

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. Other forms include single tetrahedrons (olivine), chains (single), sheets (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 produce limestone (marble) and marble (decorative slabs)
 - c. **Oxides:** Oxygen-based solids, i.e., iron
 - d. **Sulfides:** Sulfur (FeS₂), bauxite (Al₂O₃)
 - e. **Hallite:** 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.
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. Forms 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. Some 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
4. **Low grade metamorphism:** Shale becomes slate
5. **High grade metamorphism:** Gneiss becomes rock
6. **Diagenesis** 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:** Silty, 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 silicate 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).



Earth Science High School Essential Question

**Michael Gurian, Kathy Stevens, Kelley
King**



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The Mastery Learning Handbook Jonathan Bergmann, 2022-10-14 Mastery learning is an instructional approach that empowers every student to progress with confidence Using flexible pacing and targeted supports teachers guide students through a cyclic process of preparation demonstration and formative feedback until there is a mutual agreement between teacher and student that the student is ready to advance In this book educator Jonathan Bergmann a pioneer of the flipped classroom movement walks you step by step through the mastery learning cycle explaining what it entails and providing the templates models and rubrics you need to start using it in your own classroom You ll learn how to Set meaningful measurable and transferable learning objectives that target essential knowledge skills and dispositions Develop a mastery rubric to check for student levels of proficiency Create an assessment plan that ensures positive learning experiences for all Plan and deliver units that incorporate both time shifted direct instruction and collaborative application activities within the classroom space Provide timely differentiated support based on students individual learning needs Informed by trial and error in his own classroom and by discussions with other expert practitioners Bergmann shares commonsense solutions to the major challenges of mastery learning implementation everything from how to manage pacing to how to create multiple versions of tests determine grades and get stakeholder buy in The Mastery Learning Handbook is both an introduction to this exciting instructional approach and a practical resource that K 12 teachers can turn to again and again See for yourself just how effective enjoyable and transformative mastery learning can be

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Developing Learning Communities Through Teacher Expertise Giselle O. Martin-Kniep, 2003-10-14 Learn practical methods for developing a collaborative environment where teachers and administrators work together to enhance teachers practices increase student learning and produce valuable school processes

Science Curriculum Resource Handbook ,1992 **Intersections of Formal and Informal Science** Lucy Avraamidou, Wolff-Michael Roth, 2016-03-10 Science learning that takes place between and at the intersections of formal and informal science environments has not been systematically reviewed to offer a comprehensive understanding of the existing knowledge base Bringing together theory and research this volume describes the various ways in which learning science in various settings has been conceptualized as well as empirical evidence to illustrate how science learning in these settings can be supported

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United States. Department of Superintendence, 1909 **Interdisciplinary Approaches to Teaching Art in High School** Pamela G. Taylor, 2006 The authors present works of art artmaking skills and ways of knowing as catalysts for learning across the traditional disciplinary boundaries in high school Both timely and enduring this is the book that will inspire and support the work of veteran new and pre service high school art teachers The book includes issues theories and practices related to high school curriculum advocacy classroom management assessment cultural understanding idea based instructional strategies team teaching technology visual culture and student initiated learning The authors draw upon their own experiences and those of other high school art teachers to create a motivating and provocative text that challenges readers to

critically and continually reflect collaborate read and research their own interdisciplinary thinking teaching and learning processes Publisher Proceedings of the ... Annual Conference Science Teachers Association of New York State,1904
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