

# 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. **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)
- 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/cm<sup>3</sup> = 1 gm/ml.**  
 Ex., **Gold = 19.3, aluminum = 2.7, copper = 8.9**

### MOH'S SCALE

Hardness	10	MINERAL
	9	Diamond
	8	Corundum
	7	Topaz
	6	Quartz
	5	Feldspar
	4	Apatite
	3	Fluorite
	2	Calcite
	1	Gypsum
	Softest	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 simple tetrahedrons (silica), chains (silicates), sheets (mica), 3-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 (roads) and marble (decorative slabs)
  - c. **Oxides:** Oxygen based solids, i.e., iron sulfides (S<sub>2</sub>), sulfates (KOH), halides (Cl, F)
  - d. **Halide:** Mineral form of salt
  - e. **Cyanide:** Plaster, calcium
  - f. **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
  - e. Produces intrusive (plutonic) igneous rocks
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 embedded 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 becomes slate
4. **Low grade metamorphism:** Shale becomes slate
5. **High grade metamorphism:** Fossils become rock
6. **Oroclines** 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 crystallizes 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 bluish 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 silicic 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).



# **Physical Earth Science Study Guide**

**Edward J. Denecke**



# Physical Earth Science Study Guide

**Rocks, Rivers and the Changing Earth** Herman Schneider, Nina Schneider, 2014-10-15 This illustrated introduction to geology offers young readers insights into everyday signs of our constantly changing environment Fascinating subjects include rivers of ice the rise of volcanoes and the formation of precious stones Exploring Creation with Physical Science Jay L. Wile, 2007 This should be the last course a student takes before high school biology Typically we recommend that the student take this course during the same year that he or she is taking prealgebra Exploring Creation With Physical Science provides a detailed introduction to the physical environment and some of the basic laws that make it work The fairly broad scope of the book provides the student with a good understanding of the earth s atmosphere hydrosphere and lithosphere It also covers details on weather motion Newton s Laws gravity the solar system atomic structure radiation nuclear reactions stars and galaxies The second edition of our physical science course has several features that enhance the value of the course There is more color in this edition as compared to the previous edition and many of the drawings that are in the first edition have been replaced by higher quality drawings There are more experiments in this edition than there were in the previous one In addition some of the experiments that were in the previous edition have been changed to make them even more interesting and easy to perform Advanced students who have the time and the ability for additional learning are directed to online resources that give them access to advanced subject matter To aid the student in reviewing the course as a whole there is an appendix that contains questions which cover the entire course The solutions and tests manual has the answers to those questions Because of the differences between the first and second editions students in a group setting cannot use both They must all have the same edition A further description of the changes made to our second edition courses can be found in the sidebar on page 32 Physical Science with Earth Science Charles William McLoughlin, Marlyn Thompson, Dinah Zike, Ralph M. Feather, Glencoe/McGraw-Hill, 2012 **Physical Science 2 - Astronomy and Earth Science** Jane Parks Gardner, 2023-05 Essential quick reference that when combined with our Physical Science Physics Chemistry guide will cover the college level Physical Science course Expertly and succinctly written by author STEM curriculum developer and professor Jane Parks Gardner MSc MScEd as an easily accessible reference QuickStudy s famous design and outline format with color coded sections fits more of the answers you need per page than any book on science This 6 page laminated guide is overflowing with facts that will boost confidence test scores and grades The value at this price is unmatched for a study tool that can be used as a review and refresher through both high school and college 6 page laminated guide includes Earth Science Geological Time Minerals Rocks Earth s Interior Plate Tectonics Earth s Atmosphere Meteorology Astronomy Distances in Space The Universe Galaxies Stars Our Star The Sun Movement of Planets Solar System Earth Sun Moon System Humans Physical Science Renewable Resources Nonrenewable Resources Carbon Cycle **Earth Science - a**

**Comprehensive Study Teacher Edition** Peggy Lomaga, Amy Schneider, 2016-08-01 Textbook Workbook for Earth Science The Physical Setting Teacher Edition *Let's Review Regents: Earth Science--Physical Setting 2020* Edward J. Denecke, 2020-04-28 Always study with the most up to date prep Look for Let's Review Regents Earth Science Physical Setting Revised Edition ISBN 9781506264646 on sale January 05 2021 Publisher's Note Products purchased from third party sellers are not guaranteed by the publisher for quality authenticity or access to any online entitles included with the product

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