



# EARTH SCIENCE

## INTRODUCTION

### COMPONENTS OF STUDY

- Geology: Earth physical & historical
- Metgeology: Weather & Climate
- Oceanography: The oceans
- Astronomy: What is external to the atmosphere

### THE FOUR SPHERES (See The Water Cycle)

- Lithosphere: The solid earth
- Hydrosphere: The liquid earth
- Atmosphere: The gaseous earth
- Biosphere: Where life exists

### CONCERN IN OUR PHYSICAL ENVIRONMENT

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

## MINERALS

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

**A. Atom and Minerals**

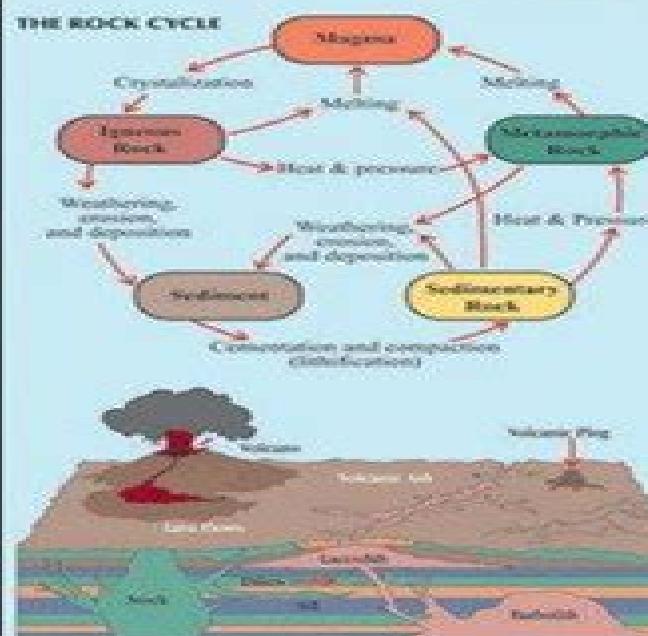
- Atoms in ancient Greek means "un-cut" i.e., the Greeks believed the atom to be the smallest particle of matter.
- Atoms are composed of neutrons, protons and electrons.
- Atomic number: Number of protons in nucleus.
- Atomic weight: Average weight of an atom.
- Isotopes: Atoms with the identical atomic number, but different numbers of neutrons in the nucleus.
- Forces: Strong, weak, electromagnetic and gravity.
- Properties of Minerals**
  - Color: Appearance or quality of light from surface.
  - Texture: Nature of light and cause of color.
  - Streak: Color of material in powdered form.
  - HARDNESS: Mohs' Scale (See Figure Below).
  - Scratch Test: Higher numbered materials can scratch lower numbered materials.
  - Shape is determined by cleavage, crystal form and structure.
- Specific Gravity: The ratio of the weight of a mineral to the weight of an equal volume of water.
- Density of water = 1 gram/cubic centimeter.  
1 g/cm<sup>3</sup> = 7.7, aluminum = 2.7, iron = 7.2.

MOM'S SCALE		MINERALS
10	Diamond	
9	Corundum	
8	Topaz	
7	Quartz	
6	feldspar	
5	Spatite	
4	Fluorite	
3	Garnet	
2	Pyrope	
1	Redite	
0	Table	

### MINERAL CONCEPTS

- Silicates: Minerals with silicon and oxygen.
- Silicates are a large class which forms a pyramidal-shaped structure with oxygen.
- Other forms include simple non-silicate minerals, oxides, sulfides, noble elements, 2-3 element hydroxides and quartz.
- Non-Silicates
- Make up one-fourth of continental crust.
- Carbides: Minerals with carbon and oxygen including calcium, those which are present limestone (calcium) and marble (calcium carbonate).
- Oxides: Oxygen-banded solids, i.e., iron sulfides (FeS), sulfates (MgSO<sub>4</sub>), halides (CaCl<sub>2</sub>, F).
- Halite: Mineral form of salt.
- Corundum: Plasma, calcium.
- Noble metals: Iron, zinc, gold, silver, nickel.

## THE ROCK CYCLE



## ROCK TYPES

### METAMORPHIC ROCKS

#### A. Formation

- Metamorphism**: To change form.
- Metamorphic rock**: Material under intense pressure, high temperature.
- Contact metamorphism**: Metamorphism caused by proximity to magma.
- Low-grade metamorphism**: Shallow metamorphism.
- High-grade metamorphism**: Deeper metamorphism.
- foliation**: During metamorphism, parallel mineral lines are formed than metamorphic rocks.
- Metamorphic structures**: Features of material that change when heat and pressure.
- foliation**: Features of material that change when heat and pressure.

#### B. Agents of Metamorphism

- Heat**
  - most important agent
  - possible energy for chemical reactions
  - For example, clay converts into a mineral at great temperature
- Pressure**
- Chemical Activity**: Most common chemical agent in nature

#### C. Types of Metamorphic Rocks

- Metamorphic**: Fine grained, dark, shiny rock with randomly arranged minerals.
- Schist**: Fine grained, often grey, foliated rock with many strong cleavage, process of metamorphism.
- Migmatite**: Granular or mottled rock, formed from foliation.
- Phyllite**: Shiny, foliated rock, more strongly foliated than schist.
- Schist**: Foliated rock, more strongly foliated and not highly metamorphic than phyllite.
- Gneiss**: Foliated, banded rock of the high metamorphic grade.
- Quartzite**: Very hard, granular quartz rock, formed from sandstone.

### IGNEOUS ROCKS

#### A. Formation

- Extrusive**: Igneous rocks are formed in volcanic eruptions at surface.
- Extrusive**: Volcanic igneous rocks are produced within the earth.
- Magma**
  - Contains mainly of silicate minerals.
  - Has gases, such as water vapor.
  - Temperature there are about 2000 °C.
  - Causes all of cooling, chemical composition, and amount of gases.
  - Produces intrusive igneous rocks.
- Lava**
  - Similar to magma.
  - Most gaseous elements have escaped.
  - Produces extrusive (volcanic) igneous rocks.

#### B. Intrusive

- Cry**: Extrusive conditioned pattern of lava.
  - The rate of cooling strongly affects crystal size.
  - Slow cooling = Large crystals.
  - Quick cooling = Small crystals.
- Amphibolite**: Intrusive pattern of lava.
  - rocks with intense cooling (frothing).
  - produces rocks referred to as glass.

#### C. Classifying Igneous Rocks

- By texture**: Size and arrangement of interlocking crystals.
  - Fast-cooled
  - Form at surface or within upper crust.
  - Ex: igneous left the gas bubbles are called vesicles.
  - Slow-cooled
  - Formed deep within the interior.
  - Slow-cooled = Large crystals, embedded in matrix of smaller crystals.
- By mineral composition**
  - Depends on composition of magma and cooling.
  - Some magmas can create rocks of varying mineral content.
  - An igneous rock contains minerals crystallized first (or very early) to form.



# Earth Science High School Essential Question

**Robert R. Redfield**

## **Earth Science High School Essential Question:**

Teaching Discipline-Specific Literacies in Grades 6-12 Vicky I. Zygouris-Coe, 2014-10-30 Comprehensive timely and relevant this text offers an approach to discipline specific literacy instruction that is aligned with the Common Core State Standards and the needs of teachers students and secondary schools across the nation It is essential that teachers know how to provide instruction that both develops content and literacy knowledge and skills and aims at reducing student achievement gaps Building on the research supported premise that discipline specific reading instruction is key to achieving these goals this text provides practical guidance and strategies for prospective and practicing content area teachers and other educators on how to prepare all students to succeed in college and the workforce Pedagogical features in each chapter engage readers in digging deeper and in applying the ideas and strategies presented in their own contexts Classroom Life real 6 12 classroom scenarios and interviews with content area teachers Common Core State Standards Connections College Career and Workforce Connections Applying Discipline Specific Literacies Think Like an Expert habits of thinking and learning specific to each discipline Digital Literacies Differentiating Instruction Reflect and Apply Questions Extending Learning Activities The Companion Website includes Lesson plan resources Annotated links to video files Annotated links to additional resources and information Glossary Flashcards For Instructors All images and figures used in the text provided in an easily downloadable format For Instructors PowerPoint lecture slides    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    Resources in Education , 1992 Serves as an index to Eric reports microform

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**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

**Sg Essentials Geology** Wicander,2001-09 Manual of Standards and Suggestions on Organization for the High Schools of Ohio Ohio. Department of Education,1921 Resources in Education ,1992 **The Lincoln Library of Essential Information an Up to Date Manual for Daily Reference, for Self Instruction, and for General Culture Named in Appreciative Remembrance of Abraham Lincoln, the Foremost American Exemplar of Self Education** ,1924 Proceedings of the Department of Superintendence of the National Educational Association ... National Education Association of the 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 **Oklahoma Teacher** ,1922 The School Journal ,1903 *New York School Journal* ,1899 *High School Department Bulletins* University of the State of New York,1900 Contains proceedings of various teachers associations academic examination papers etc **The Lincoln Library of Essential Information** ,1924 *School Science and Mathematics* ,1915

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