



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

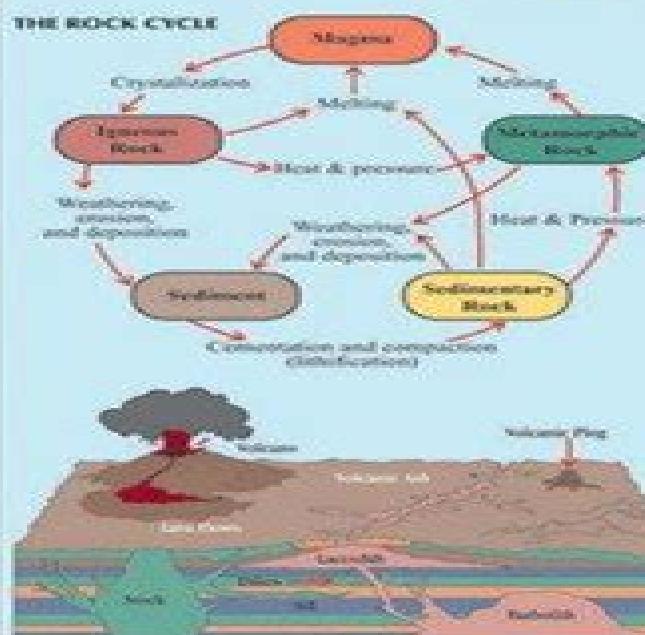
- Atoms in ancient Greek means "un-cut" i.e., the Greeks believed the atom to be the smallest particle of matter.
- Atoms are composed of neutrons, protons and electrons.
- Atomic number: Number of protons in nucleus.
- Atomic weight: Average weight of an atom.
- Isotopes: Atoms with the identical atomic 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/cm³ = 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 hydrocarbons 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 (MgSO₄), halides (CaCl₂, F).
- Halite: Mineral form of salt.
- Corundum: Plasma, calcium.
- Noble metals: Iron, zinc, gold, silver, nickel.

THE ROCK CYCLE



IGNEOUS ROCKS

A. Formation

- Extrusive igneous rocks are formed in volcanic eruptions at surface.
- Extrusive or plutonic igneous rocks are produced within the earth.
- Magma**
 - Is a mixture mainly of silicate minerals.
 - Has gases, such as water vapor.
 - Temperature there are about 2000 °K.
 - 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.
- Metamorphism**
 - Can stabilize different patterns of lava.
 - The rate of cooling strongly affects crystal size.
 - Slow cooling = Large crystals.
 - Quick cooling = Small crystals.
- Amorphous (non-crystalline) patterns of lava**
 - rocks with instant cooling (quenching).
 - produces rocks referred to as glass.
- Classifying Igneous Rocks**
 - By texture: size and arrangement of interlocking crystals.
 - Fast-cooled
 - Form at surface or within upper crust.
 - Crystals left the gas bubbles are called vesicles.
 - Slow-cooled = Formed deep within the interior.
 - Granular: 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.

ROCK TYPES

METAMORPHIC ROCKS

A. Formation

- Metamorphism: To change form.
- Regional metamorphism: Material under intense pressure, high temperature.
- Contact metamorphism: Metamorphism caused by proximity to magma.
- Low grade metamorphism: Shallow metamorphic rock.
- High grade metamorphism: Deeper metamorphic rock.
- foliation: During metamorphism, minerals are arranged in layers.
- Metamorphic structures: Features of material arranged into layers with one another.
- Agents of Metamorphism**
 - Heat
 - Water
 - gaseous vapors
 - possible energy for chemical reactions.
 - For example, clay converts into a mineral at great temperature.

B. Classification

- Metamorphic Rocks**
 - Metamorphic: Fine grained, dark, shiny rock with randomly arranged minerals.
 - Schist: Fine grained, often gray, foliated rock with many strong cleavage planes of mica minerals aligned by pressure.
 - Migmatite: Granular or mica-schist rock.
 - Phyllite: Shiny, foliated rock more strongly foliated than schist.
 - Schist: Foliated rock, more coarsely grained and w/ higher metamorphic grade than phyllite.
 - Gneiss: Foliated, banded rock w/ the highest metamorphic grade.
 - Quartzite: Very hard, granular quartz rock, formed from sandstone.

- Types of Metamorphic Rocks**
 - Metamorphic: Fine grained, dark, shiny rock with randomly arranged minerals.
 - Schist: Fine grained, often gray, foliated rock with many strong cleavage planes of mica minerals aligned by pressure.
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 - Quartzite: Very hard, granular quartz rock, formed from sandstone.

BROWNE'S REACTION SERIES

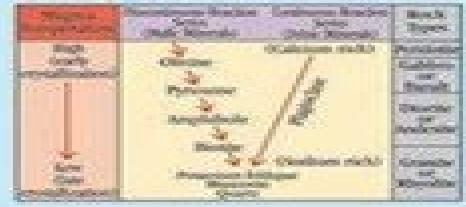
- is a mineral, which has already dissolved, reacts w/ other minerals, it will react w/ the remaining magma to produce the next mineral in the sequence. For example, calcium reacts w/ silica to form a silicate, which reacts w/ remaining magma to form a pyroxene.

B. Bright Silica and Bright Silicate

- Calcium reacts w/ silica to form a silicate, which reacts w/ feldspar.
- Then reacts w/ sodium to form a feldspar and more sodium melt.

C. End of Cooling

- When everything is melted out, remaining magma w/ have high silica content, and quartz melt.
- Without cooling w/ temperature, everything that reacted at the same time will remain by the glass. In this process, pyroxene, olivine, and quartz close after one another for major growth.



Earth Science High School Essential Question

Ohio. Department of Education

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

Strategies for Teaching Boys and Girls -- Secondary Level Michael Gurian,Kathy Stevens,Kelley King,2011-01-06 In his best selling classic Boys and Girls Learn Differently Michael Gurian explained the origin and nature of gender differences in the classroom His important book explored the behavior teachers observed and the challenges they faced with both boys and girls in their classrooms Taking the next step Strategies for Teaching Boys and Girls Secondary level A Workbook for Educators offers teachers a hands on resource that draws on the Gurian Institute's research and training with secondary schools and school districts The workbook presents practical strategies lessons and activities that have been field tested in real classrooms and developed to harness boys and girls unique strengths The workbook is designed to help teachers build a solid foundation of learning and study habits that their students can use in the classroom and at home It covers the key curricular areas and offers proven techniques to make learning no matter what the subject more engaging for all students The workbook is an essential resource for all teachers who want to improve their practice and get the most from all students whatever their gender 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

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

Earth Science High School Essential Question Book Review: Unveiling the Magic of Language

In an electronic digital era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its ability to stir emotions, provoke thought, and instigate transformation is truly remarkable. This extraordinary book, aptly titled "**Earth Science High School Essential Question**," compiled by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we shall delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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web aug 2 2023 whale shark rhincodon typus gigantic but harmless shark family rhincodontidae that is the largest living fish whale sharks are found in marine environments worldwide but mainly in tropical oceans they make up the only species of the genus rhincodon and are classified within the order orectolobiformes a group

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web whale sharks rhincodon typus are the largest shark and indeed largest of any fishes alive today they feed on plankton and travel large distances to find enough food to sustain their huge size and to reproduce whale sharks

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web jul 28 2019 whale sharks are the world s largest fish justin lewis digital vision getty images one of the most notable facts about whale sharks is that they are the world s largest fish at a maximum length of about 65 feet and weight of 75 000 pounds a whale shark s size rivals that of large whales 02 of 10

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web jun 2 2012 off the coast of venezuela we encounter the whale shark the biggest of all the fish in the ocean in this clip a shoal of bait fish are using the whale shark as a protective shield however

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web the whale shark is the largest fish in the world and the largest fish known to have lived on this planet because of its size and cartilaginous skeleton it does not fossilize well and in life it is very difficult to weigh accurately the largest accurately measured whale shark was 61 7 feet 18 8 m

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web whale shark scientific name rhincodon typus type fish diet carnivore group name school average life span in the wild 70 years size 18 to 32 8 feet weight 20 6 tons size relative to a bus

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web 1 whale sharks are not whales they are sharks although these huge sea creatures are called whale sharks they are not actually whales but filter feeding sharks often referred to as gentle giants they are also the world's largest fish growing up to 12 metres long

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web apr 6 2020 whale sharks are large slow moving and docile creatures that mainly inhabit tropical waters they are long lived but scientists have struggled to work out the exact ages of these endangered

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web apr 23 2021 the whale shark is a filter feeding carpet shark meaning that it can neither bite nor chew whale sharks have thousands of tiny teeth that they can only shrimp fish and plankton by using

where the whale sharks are new research reveals secrets of - Jun 01 2022

web she found that the whale sharks in offshore habitats travelled more and occupied deeper waters than those within the bay it appears that the younger male whale sharks are more opportunistic and for many the ready supply of food at the bagan platforms in cenderawasih bay was reason enough to stay

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web a whale shark the size of a school bus swims slowly near the surface of the ocean its wide mouth is open like an enormous net scooping up whatever happens to be around mostly small fish fish

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web whale sharks are highly migratory and it is thought that their movement is associated both with abundance of food in the area as well as breeding behaviors scientists are still researching the life cycle of whale sharks but it is believed that male whale sharks begin maturing around 17 years old and females around 19 22 years old

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web the whale shark rhincodon typus is a slow moving filter feeding carpet shark and the largest known extant fish species the largest confirmed individual had a length of 18 8 m 61 7 ft the whale shark holds many records for size in the animal

kingdom most notably being by far the largest living nonmammalian vertebrate

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web the whale shark is oviparous meaning the female sharks produce eggs that are hatched inside of her these eggs are not all born at once but are born in a steady stream over a certain period able to birth around 300 young whale sharks reach sexual maturity at 30 years and live to a total of around 70 to 100 years

whale sharks how we discovered what s killing so many of the - Mar 30 2022

web may 9 2022 whale sharks spend a lot of their time cruising just below the ocean surface often feeding on microscopic animals called zooplankton which can put them in the direct path of a ship if a large

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web oct 19 2020 the whale shark is the largest species of extant shark unlike most sharks they are planktivores slow moving filter feeders that feed exclusively on microscopic plankton description whale sharks can reach large sizes of more than 60 feet long and can weigh as much as 42 000 pounds

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web fin tastic facts the whale shark is the largest fish in the ocean reaching lengths of up to 18 meters yet they feed on some of the tiniest creatures they can travel immense distances around the

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web sep 3 1987 description an opera with instrumental parts for strings keyboard continuo plus optional guitar for dances this edition with english and german texts is based on that by edward dent first published in 1925 but includes more recent scholarship the preface presents a history of the work

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web purcell s dido and aeneas 1689 is regarded by many as the finest opera ever written in english it shows his skill as a dramatist contrapuntist and melodist the opera also highlights

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web dido and aeneas z 626 is an opera in a prologue and three acts written by the english baroque composer henry purcell with a libretto by nahum tate the dates of the composition and first performance of the opera are uncertain

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web may 20 2019 the dating of purcell s dido and aeneas early music 20 1992 372 90 has provoked controversies that continues to run via a plethora of articles letters conference papers and conversations the passions raised are about far more than wood and pinnock s conclusions for their arguments touch on a vast range of questions that

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web in opera early opera in france and england 1683 by john blow and dido and aeneas 1689 by henry purcell the latter with a libretto by nahum tate contains one of the earliest arias to remain in the repertoire dido s italianate lament when i am laid in earth composed over a ground bass by synthesizing italian french and english

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