

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. Atom and Forces

1. Atom, in ancient Greek, means "no-cut," i.e., the Ancients believed the atom 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

B. Forces: Strong, weak, electromagnetic and gravity

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

C. 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., lead = 7.7, aluminum = 2.7, osmium = 22

MOH'S SCALE

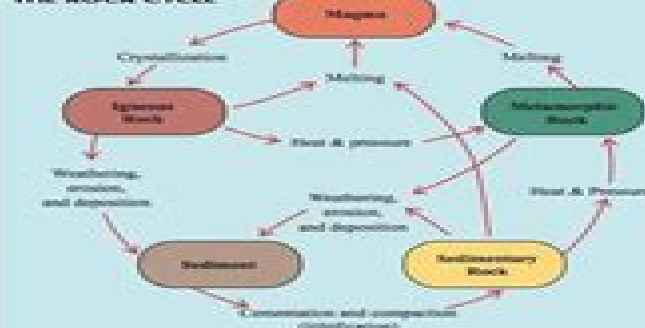
Hardest	10	Diamond
	9	Corundum
	8	Topaz
	7	Quartz
	6	Feldspar
	5	Apatite
	4	Fluorite
	3	Calcite
	2	Gypsum
Softest	1	Talc

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 (magical silicates (micas), 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
 - 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. 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
 - e. Produces intrusive (plutonic) igneous rocks
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. 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
4. Low grade metamorphism: Shale becomes slate
5. High grade metamorphism: Fossils become rock
6. Cliffs 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. Gneiss: 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

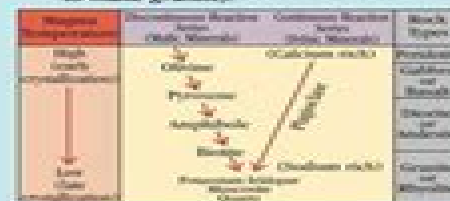
If a mineral, which has already formed, remains in the magma, it will react with the remaining magma to produce the next mineral in the sequence. For example, olivine forms first; olivine then reacts with remaining magma to form pyroxene.

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).



Earth Science High School Essential Question

Giselle O. Martin-Kniep



Earth Science High School Essential Question:

Teaching Discipline-Specific Literacies in Grades 6-12 Vicky I. Zygmouris-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

The Top Books of the Year Earth Science High School Essential Question The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous compelling novels captivating the hearts of readers worldwide. Lets delve into the realm of top-selling books, exploring the fascinating narratives that have charmed audiences this year. The Must-Read : Colleen Hoover's "It Ends with Us" This touching tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover skillfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can succeed. Earth Science High School Essential Question : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This captivating historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids absorbing storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Earth Science High School Essential Question : Delia Owens "Where the Crawdads Sing" This captivating coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens weaves a tale of resilience, survival, and the transformative power of nature, entrancing readers with its evocative prose and mesmerizing setting. These top-selling novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of compelling stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a brilliant and thrilling novel that will keep you guessing until the very end. The novel is a cautionary tale about the dangers of obsession and the power of evil.

<https://new.webyeshiva.org/results/publication/index.jsp/Honey%20And%20The%20Hired%20Hand%20Silhouette%20Desire%20No%20746.pdf>

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web course biology library unit 15 lesson 3 meiosis comparing mitosis and meiosis chromosomal crossover in meiosis i

phases of meiosis i phases of meiosis ii

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web meiosis is the specialized cell division that generates gametes in contrast to mitosis molecular mechanisms and regulation of meiosis are much less understood meiosis shares mechanisms and regulation with mitosis in many aspects but also has critical differences from mitosis this review highlights these differences between meiosis and

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web the webquest covers key concepts such as mitosis interphase meiosis perfect for use in the classroom or as an assignment to leave with a sub this webquest is aligned with national education standards and is suitable for use in any life science or biology course get your students excited about learning with the cell cycle webquest

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web objective in this activity you will use the following web pages to examine the processes of mitosis and meiosis both of these processes are important in homeostasis as well as human reproduction part a cell growth and mitosis please go to the following webpage plaza ufl edu alallen pgl modules rio stingarees module index html 1

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web this webquest covers cell division mitosis meiosis this webquest includes short video clips with built in links to help introduce students to the concepts20 self grading multiple choice questionsonline text that can easily be made into audio with online resources for students with accommodation concernswhat are people saying about

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web 1 on the left side of the screen is a navigation bar click on the link mitosis 2 read the text on this page and view the animation you can slow down the video by clicking step by step through the phases answer the following 3 list and the stages of mitosis 4 which stage does the following occur

meiosis cell division biology article khan academy - Jun 11 2023

web the goal of mitosis is to produce daughter cells that are genetically identical to their mothers with not a single chromosome more or less meiosis on the other hand is used for just one purpose in the human body the production of

meiosis read biology ck 12 foundation - Mar 28 2022

web feb 24 2012 meiosis is a type of cell division in which the number of chromosomes is reduced by half meiosis is specific to gamete producing cells in the gonads meiosis begins with a diploid cell and ends with four haploid cells these cells eventually differentiate into mature sperm or egg cells during meiosis homologous chromosomes separate

nova official website how cells divide - May 30 2022

web oct 9 2001 mitosis allows the cells in your body to divide and regenerate your hair to grow your skin to heal after being wounded almost all of the dna duplication in your body is carried out through

mitosis meiosis webquest answers biol 4940 uga studocu - Sep 14 2023

web 1 what is the role of the cell membrane in cell division the main function of the cell membrane is to control what goes in and out of the cell it is made of a double layer of lipids fats imbedded with odd looking protein molecules 2

mitosis vs meiosis biology dictionary - Apr 28 2022

web jan 22 2021 mitosis is how new body cells are produced whereas meiosis is used to produce gametes i e sperm and egg cells mitosis vs meiosis mitosis mitosis is how the cells of your body reproduce during mitosis a diploid parent cell i e a cell with two sets of chromosomes makes a complete copy of its dna before splitting in two

mitosis and meiosis quiz questions and answers proprofs - Feb 24 2022

web aug 16 2023 correct answer b 46 explanation the number of chromosomes in a human cell is 46 this is because humans have 23 pairs of chromosomes with each pair consisting of one chromosome from the mother and one from the father therefore when these pairs are combined the total number of chromosomes in a human cell is 46

mitosis and meiosis webquest cdnsm5 ss8 sharpschool com - Feb 07 2023

web mitosis and meiosis webquest mitosis and meiosis webquest biology name date period objective in this activity you will use the following web pages to examine the processes of mitosis and meiosis both of these processes are important in homeostasis as well as human

10 key differences between mitosis and meiosis prepscholar - Oct 03 2022

web another difference between mitosis and meiosis is that during mitosis there is only one cell division so the cell goes through the steps of prophase metaphase anaphase and telophase once however during meiosis there are two cell divisions and the cell goes through each phase twice so there s prophase i prophase ii etc

phases of mitosis mitosis biology article khan academy - Jun 30 2022

web mitosis consists of four basic phases prophase metaphase anaphase and telophase some textbooks list five breaking prophase into an early phase called prophase and a late phase called prometaphase these phases occur in strict sequential order and cytokinesis the process of dividing the cell contents to make two new cells starts

mitosis webquest flashcards quizlet - Sep 02 2022

web the final phase of cell division between anaphase and interphase in which the chromatids or chromosomes move to opposite ends of the cell and two nuclei are formed why is meiosis important meiosis is important because it results in genetic variation amongst gametes what do chromosomes do in prophase 1

mitosis and meiosis web quest kyrene school district - Nov 04 2022

web mitosis and meiosis web quest adapted from burlingame california high school biology materials part 1 mitosis mitosis animation on this site the phases of mitosis can be studied in more detail go to stolaf edu people giannini flashanimat celldivision crome3 swf

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of these processes are important in homeostasis as well as human reproduction

8 27 assignment mitosis and meiosis worksheets - Aug 13 2023

web less than 20 mitosis questions answered correctly and or less than 7 correct images included 0 0 pts 5 pts identify the stages of meiosis by picture and by description of major milestones describe why meiosis involves two rounds of nuclear division more than 13 meiosis questions answered correctly 5 0 pts 12 13 meiosis questions

make like a cell and split comparing mitosis and meiosis - Mar 08 2023

web sep 8 2021 meiosis occurs only in the production of sperm and egg cells for sexual reproduction the phases of cell division before either mitosis or meiosis occurs cells go through a preparatory process called interphase where they grow and make a copy of their genetic information mitosis has six phases apart from interphase

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