

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

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 = 1gm/cm³ = 1gm/ml.
 i.e., lead = 7.7, aluminum = 2.7, osmium = 22

MOH'S SCALE

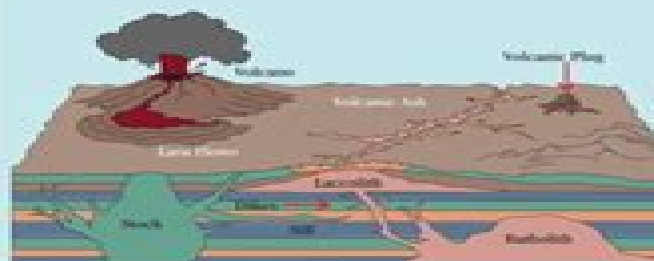
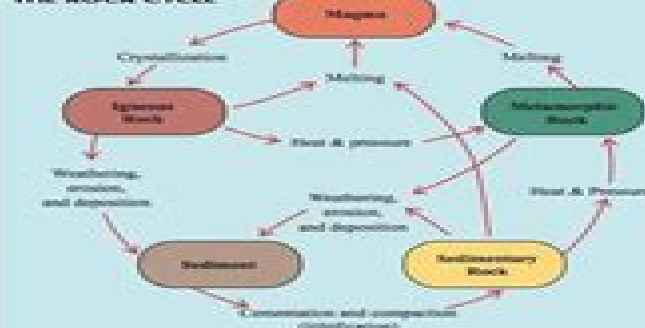
Hardest	10	Diamond
	9	Corundum
	8	Topaz
	7	Quartz
	6	Feldspar
	5	Apatite
	4	Fluorite
	3	Calcite
	2	Gypsum
Softest	1	Talc

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

JR Anderson



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 Essentials of Science, Grades 7-12 Rick Allen, 2007-11-15 Learn about best practices in secondary science education from curriculum planning and ongoing assessment to student motivation and professional development for teachers *Performance-Based Learning & Assessment in Middle School Science* K. Michael Hibbard, 2014-05-22 This book contains a collection of performance tasks and easy to use assessment tools ready to be photocopied and distributed to your students The tasks in this book ask students to write letters prepare posters create charts and graphs prepare 3D models write skits take surveys and otherwise apply what they have learned

Essential Questions in Adolescent Literacy Jill Lewis, 2009-05-04 In each chapter of this unique volume an exemplary teacher collaborates with a prominent scholar to present real world strategies for putting literacy research to work in grades 5 12 These lively dialogues tackle key questions in adolescent literacy including issues of motivation critical thinking skills content area writing differentiated instruction assessment English language learning and technology Suggestions for incorporating adolescents out of school literacies and working with reading specialists and coaches show how to build connections between the classroom and wider communities In depth portraits of challenges and successes in the classroom practical instructional tips and stimulating questions for reflection make the book a valuable resource for inservice and preservice teachers

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* ,1995 Science Curriculum Resource Handbook ,1992 Ambitious Science Teaching Mark Windschitl,Jessica Thompson,Melissa Braaten,2020-08-05 2018 Outstanding Academic Title Choice Ambitious Science Teaching outlines a powerful framework for science teaching to ensure that instruction is rigorous and equitable for students from all backgrounds The practices presented in the book are being used in schools and districts that seek to improve science teaching at scale and a wide range of science subjects and grade levels are represented The book is organized around four sets of core teaching practices planning for engagement with big ideas eliciting student thinking supporting changes in students thinking and drawing together evidence based explanations Discussion of each practice includes tools and routines that teachers can use to support students participation transcripts of actual student teacher dialogue and descriptions of teachers thinking as it unfolds and examples of student work The book also provides explicit guidance for opportunity to learn strategies that can help scaffold the participation of diverse students Since the success of these practices depends so heavily on discourse among students Ambitious Science Teaching includes chapters on productive classroom talk Science specific skills such as modeling and scientific argument are also covered Drawing on the emerging research on core teaching practices and their extensive work with preservice and in service teachers Ambitious Science Teaching presents a coherent and aligned set of resources for educators striving to meet the considerable challenges that have been set for them

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 *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

Differentiated Instruction Amy Benjamin,2014-05-22 This book demonstrates how to make your classroom more responsive to the needs of individual students with a wide variety of learning styles interests goals cultural backgrounds and prior knowledge Focusing on grades 6 through 12 this book showcases classroom tested activities and strategies Differentiated Instruction A Guide for Middle and High School Teachers shows you how to vary your instruction so you can respond to the needs of individual learners The concrete examples in this book demonstrate how you can use differentiated instruction to clarify the content what you want students to know and be able to do the process how students are going to go about learning the content and the product how they will show you what they know This book is uniquely interactive It features Reflections to help you understand your teaching style and guide you towards developing habits of mind which result in effective differentiated instruction Also included is a chapter on teaching students whose native language is not English *Resources for Environmental Literacy* ,2007 Resources for Environmental Literacy offers a fresh way to enhance your classroom productivity The environmental context it provides can improve students science learning The modules offer appropriate teaching strategies plus high quality resources to deepen your students understanding of key environmental topics Teaching Green - The High School Years Tim Grant,Gail Littlejohn,2013-09-23 This resource is ideal for anyone working with young people in grades 9 12 whether in schools or in non formal educational settings Richly illustrated it offers fifty teaching strategies that promote learning about natural systems and foster critical thinking about environmental issues both local and global It contains new approaches to learning strategies for living sustainably and numerous activities that promote interdisciplinary learning In addition the book provides suggestions for how best to green individual subject areas develop integrated learning programs or replicate exemplary programs created by innovative schools and communities Containing contributions from over sixty educators from across North America the book s strength lies in its diverse content

Readers learn how best to apply systems thinking teach about controversial issues and use a step by step approach to creative problem solving in environmental projects Also provided are instructions for measuring the ecological footprint of a high school creating an indoor living system that cleans water monitoring air quality with lichens and using green technologies to help green school campuses Many articles and activities engage teenagers in outdoor learning and community restoration projects Suggestions are included for connecting students with special needs to the environment around them Readers will find accessible background information and suggestions for many practical projects and activities It is sure to appeal to a wide range of teachers educators and parents seeking innovative ideas for incorporating green themes into their programs Tim Grant and Gail Littlejohn are the editors of Green Teacher magazine North America s award winning environmental teaching resource EarthEd (State of the World) The Worldwatch Institute,2017-04-20 Today s students will face the unprecedented challenges of a rapidly warming world including emerging diseases food shortages drought and waterlogged cities How do we prepare 9 5 billion people for life in the Anthropocene to thrive in this uncharted and more chaotic future Answers are being developed in universities preschools professional schools and even prisons around the world In the latest volume of State of the World a diverse group of education experts share innovative approaches to teaching and learning in a new era EarthEd will inspire anyone who wants to prepare students not only for the storms ahead but to become the next generation of sustainability leaders **Solid-Earth Sciences and Society** National Research Council,Division on Earth and Life Studies,Commission on Geosciences, Environment and Resources,Committee on the Status and Research Objectives in the Solid-Earth Sciences,1993-02-01 As environmental problems move upward on the public agenda our knowledge of the earth s systems and how to sustain the habitability of our world becomes more critical This volume reports on the state of earth science and outlines a research agenda with priorities keyed to the real world challenges facing human society The product of four years of development with input from more than 200 earth science specialists the volume offers a wealth of historical background and current information on Plate tectonics volcanism and other heat generated earth processes Evolution of our global environment and of life itself as revealed in the fossil record Human exploitation of water fossil fuels and minerals Interaction between human populations and the earth s surface discussing the role we play in earth s systems and the dangers we face from natural hazards such as earthquakes and landslides This volume offers a comprehensive look at how earth science is currently practiced and what should be done to train professionals and adequately equip them to find the answers necessary to manage more effectively the earth s systems This well organized and practical book will be of immediate interest to solid earth scientists researchers and college and high school faculty as well as policymakers in the environmental arena *A Guide for Substitute and Interim Teachers* Barbara Washington,2020-12-29 If you re a substitute or interim teacher or thinking of becoming one you won t want to miss the techniques and strategies in this user friendly easy to read book Author Barbara Washington guides you through every step

including the application process lesson planning classroom management and school safety Each chapter offers practical examples and current best practices to support you on your way to success The book also includes essential tools such as reproducible lesson plans worksheets graphic organizers and more Concise but complete this is an ideal resource for substitute teacher professional development

Inquire Within Douglas Llewellyn, 2013-12-02 Your definitive guide to inquiry and argument based science updated for today's standards Doug Llewellyn's two big aims with this new edition of *Inquire Within* To help you engage students in activities and explorations that draw on their big questions then build students capacity to defend their claims Always striking a balance between the why and the how new features include how to Teach argumentation a key requirement of both the Common Core and NGSS Adapt your existing science curricula and benefit from the book's many lesson plans Improve students language learning and communication skills through inquiry based instruction Develop your own inquiry based mindset

Developing Readers in the Academic Disciplines Doug Buehl, 2023-10-10 Being literate in an academic discipline is more than being able to read and comprehend text you can think speak and write as a historian scientist mathematician or artist Author Doug Buehl strips away the one size fits all approach to content area literacy and presents an instructional model for disciplinary literacy which honors the discipline and helps students learn within that area In this revised second edition *Developing Readers in the Academic Disciplines* shows how to help students adjust their thinking to comprehend a range of complex texts that fall outside their reading comfort zones Inside you'll find Instructional tools that adapt generic literacy practices to discipline specific variations Strategies for frontloading instruction to activate and build background knowledge New approaches for encouraging inquiry around disciplinary texts In depth exploration of the role of argumentation in informational text Numerous examples from science mathematics history and social studies English language arts and related arts to show you what vibrant learning looks like in various classroom settings Designed to be a natural companion to Buehl's *Classroom Strategies for Interactive Learning* *Developing Readers in the Academic Disciplines* introduces teachers from all disciplines to new kinds of thinking and ultimately teaching that helps students achieve new levels of understanding

Quality Questioning Jackie Acree Walsh, Beth Dankert Sattes, 2016-10-05 Realize the potential of quality questioning for student thinking and learning Quality questioning begins with the preparation of questions that engage all students in thinking and culminates in the facilitation of dialogue that takes learning deeper Completely updated this second edition reflects new research addresses technological and policy changes and includes new insights from the authors work with teachers Designed for immediate classroom use readers will find Graphics tools and strategies to develop student skills and create a powerful learning culture QR codes that link to more than twenty new classroom videos Tools and strategies to support personal reflection classroom observations and collaborative dialogue

Making an Extraordinary School Len Solo, 2010 Offers an enlightened and enlightening alternative to what so many today must experience and endure in schools

This book delves into Earth Science High School Essential Question. Earth Science High School Essential Question is a crucial topic that must be grasped by everyone, ranging from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Earth Science High School Essential Question, encompassing both the fundamentals and more intricate discussions.

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