

EARTH SCIENCE

INTRODUCTION

COMPONENTS OF STUDY

- Geology: Both physical & historical Meteorology: Weather & climate

- Overanegraphy: The occurs
 Astronomy: What is external to the streosphere
- THE FOUR SPHERES (See The Water Cycle)
 - Litthosphone: The solid earth
 - Hydrosphere: The board curts
 - Atmosphere: The garcous curth Biosphere: Where life exists

CONCERNS IN OUR PHYSICAL ENVIRONMENT

- Reservoire: Water, soil, metallic & non-metallic elemornts, sundight, word, etc.
- 2. Per-capita use of metallic and non-metallic elements in \$1 tones per year.
- Renovable via non-nenovable resources
- Environmental and population problems.

MINERALS

- A industrial is a nationally occurring, inorganic, solid motorial with a definite atomic structure.
- As one is a useful metallic mineral.

Absent and Farees

- L. Atton, in specient Greek, necess "so-cut," i.e., the Ancients believed the atom to be the smallest partiother off manthem.
- Atoms are composed of neutrons, protons and electrons.
- a. Atomic number: Number of protons in nucleus Atomic weight: Average weight of an atom
- Isotope: Forms of an element with identical atomic numbers, but different numbers of neu-
- trons in the mackeus. Forces: Strong, weak, electromagnetic and gravity
- Properties of Missensis
- 1. Luster: Appearance or quality of light from surface
- Color: Nature of light and cause of color
- Stocak: Color of material in powdored form
- 4. Hardness: Mob's Scale (See Figure below)
- Scratch Test: Higher mumbered materials can scratch lower numbered metorials.
- 5. Shape is determined by clemage, crystal form and

4. Supercities Committee

- The ratio of the weight of a minoral to the weight of an equal volume of water
- Density of water type/con3-type/od.
 - k.e., hold = 2.7, alluminum = 2.7, enmisse = 22

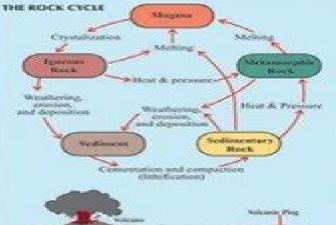
MOH'S SCALE		NEWWOOL
Manhot	100	Doorwood
	9	Cortondon
	186	- Support
	25	Quarter
	100	- Pelidipar
	15.	Appelier
		Howette
	1 34	Calvate
	12	Cuprouts
Seelboost		Table -

- Cl. Milesprad Correspo.
 - I. Silicates: Minerals with silicone and oxygen a. Sillionn is a semi-original which forms a pyramid
 - shaped structure with oxygen. Other forms include single setsahedrons (elivines, chains (augite), sheets (micas), 3-D structures effections and quantity
 - Name Stilligation
 - Make up one-fourth of continental crust
 - Carbonates: Minerals with earlien and expensionlessing calcite, from which we procure funcstone (results) and marble (decorative ulabs)

 Oxides: Oxygen based soluls, i.e., see
 solfides (St. sulfates (SO4), balides (CL, F)

 - Halling: Managed forms of safe
 - Corporate: Planter, extenses
 - Native metals: Iron, zinc, gold, silver, nickel

ROCK TYPES



EGNEOUS ROCKS

- Extrusive igneous rocks are formed in volcanic eruptions manufacture.
- Betrusive (or plutonic) igneous rocks are prodoced within

Officer of participation

- 3. Magneton Consists mainly of alliante materials.

 - b. Has genece, each in water viewer c. Originates from as deep as 200 km d. Differs in rate of cooling, chemical composition, and arrespond of paymen.
- e. Produces intrusive (plumonic) igneous rocks

4. Same

- endac to magmo
- Most gaseous cloments have escaped
- e. Produces extrasive (volcanie) ignoras rocks

- 1. Crystallication (intered pottors of ions):
- The rate of cooling strongly affects crystal stee b. alose cooling " large crystal
- quick cooling small crystals
 Asserpheus (unordered painers of iona):
 - a occurs with imitant cooling (quenching) b. produces rocks referred to an glass

C. Chemisting Igneous Stocks

- 1. By texture, size and arrangement of interlocking crystals. a. Cons-ovalmed
 - s. form at surface or within upper court. is, openings left by gas builthfus are called senselys b. coarse-grained - formed doop within the interior
 - porphyritite large crystals infledded in matrix of smaller crystals
 - 2. By mineral composition
 - Depends on composition of magma and cooling
 - Some mageria can execute micks of varying minural content. As mageria cools, cortain minerals crystallises first (at

MITAMORPHIC BOCKS

- Metamorphic: To change form Regional roctomorphism: Material under intense messes, high temperatures
- Contact (thermal) metamocphism
- Changes caused by graviously to magnia Low grade metamorphism Shale
- High grade metamorphism: Femily
- Often form during meastain building:
- Most metamorphic socks are harder than
- acdimentary nocks.
 Metamorphism changes texture
- Low-grade metamorphism makes more-
- cial more compact, more dense 16 Fediated testure: Particles of material be unto hime with one another

D. Agents of Metamorphisms

- I. Blicott
 - studed important apont.
 - b. provides energy for observed reactions.
- For example: clay necrystallines into a seineral at great temperature
- 2. Proposite
- 3. Chemical Activity: Most common
- C. Types of Metamocoldic Rocks
 - Blornfels: Fine grained, dark fliety rock
 - with randomly arranged minerals 2. State: Fine grained, others gray, foliated
 - rock split easily along cleavage, planes of roca fishes aligned by pressure 3. Marble: Granular or sugary-tectured
 - rock formal from livear
 - Phylline Solly, foliated rock more centricly grained than date
 School Foliated took, more converly grained and of higher metamorphic
 - yade than Phylline n Gnetse: Followed, bunded rock of the
- highest metamorphic grade 7. Quartelte: Very hard, granular quarte

BOWEN'S REACTION SERIES.

If a minoral, which has already formed, remains in the macros, it will react with the remaining magma to produce the next mineral in the sequence. For example, whitese forms first: officing their reacts with remoting marginus for Alexen provinces

- A. Right Side of the Bowen Series. Calcium rich purts of the magmo form small crystals of feldspar.
 - 2. These react with sodium in the magnin to become spece and more sedium righ.

- 19. Blad of Cooling: When everything is almost cook, remaining magnes will have high silicone con-
- sons, and quarte will form 2. When cooling is complete, everythin that cooled at the same time will usualby he close to one another (Addigue, retical and quarte cool near one another



High School Earth Science Proficiency Study Guide

Yicheng Fang

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Resources in Education .2000 State Curriculum Guides for Science, Mathematics, and Modern Foreign Languages, a Bibliography ,1960 Circular - Office of Education United States. Office of Education, 1930 Science Curriculum Resource Handbook ,1992 Research in Education ,1973 California High School Earth Science Castle Rock Research Corp, 2014-09 The SOLARO Study Guide is designed to help students achieve success in school It is a complete guide to be used by students throughout the school year for reviewing and understanding course content and for preparing for assessments The content in the California High School Earth Science study guide is 100 percent curriculum aligned and serves as an excellent source of material for review and practice Each Class Focus includes the following sections Motion Forces Structure of Matter Earth in the Solar System Reactions Chemistry of Living Systems the Periodic Table Density and Buoyancy and Investigation and Experimentation To create this book teachers curriculum specialists and assessment experts have worked closely to develop the instructional pieces that explain each of the key concepts for the course The practice questions and sample tests have detailed solutions that show problem solving methods highlight concepts that are likely to be tested and point out potential sources of errors Enhanced treatment of concepts more practice sections and additional learning tools are found in the accompanying digital version of SOLARO which may be accessed through the web or on mobile devices GED Exam Prep 2024-2025 Bill T Reese, 2024-04-18 Embarking on the journey to obtain your high school equivalency credential through the GED General Educational Development test is a pivotal step towards unlocking a world of opportunities and fulfilling your educational and career aspirations In this comprehensive guidebook we delve deep into the intricacies of the GED test providing invaluable insights strategies and resources to help you succeed From mastering mathematical concepts to unraveling scientific mysteries from exploring historical events to honing language arts skills each section of the GED test presents its own set of challenges and opportunities With expert guidance and practical advice this book equips you with the knowledge and confidence to tackle each component of the exam with ease and precision Inside you ll discover Detailed Overview Gain a comprehensive understanding of the structure content and scoring of the GED test including the four main sections Mathematics Science Social Studies and Reasoning Through Language Arts RLA Comprehensive Study Strategies Learn proven techniques to optimize your study efforts including creating personalized study plans utilizing practice questions and study guides and leveraging additional resources for maximum effectiveness Essential Test Taking Tips Explore essential tips and strategies to enhance your test taking skills including time management question analysis and effective decision making strategies Step by Step Guidance Navigate the registration process scheduling your exam and understanding test format and question types with ease ensuring a smooth and seamless testing experience Practice Questions and Answers Put your knowledge to the test with a wealth of practice questions and detailed explanations designed to reinforce key concepts and boost your confidence Insights into Test Preparation Discover the

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Table of Contents High School Earth Science Proficiency Study Guide

- 1. Understanding the eBook High School Earth Science Proficiency Study Guide
 - The Rise of Digital Reading High School Earth Science Proficiency Study Guide
 - Advantages of eBooks Over Traditional Books
- 2. Identifying High School Earth Science Proficiency Study Guide
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
- 3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - $\circ\,$ Features to Look for in an High School Earth Science Proficiency Study Guide
 - User-Friendly Interface
- 4. Exploring eBook Recommendations from High School Earth Science Proficiency Study Guide

- Personalized Recommendations
- High School Earth Science Proficiency Study Guide User Reviews and Ratings
- High School Earth Science Proficiency Study Guide and Bestseller Lists
- 5. Accessing High School Earth Science Proficiency Study Guide Free and Paid eBooks
 - High School Earth Science Proficiency Study Guide Public Domain eBooks
 - High School Earth Science Proficiency Study Guide eBook Subscription Services
 - High School Earth Science Proficiency Study Guide Budget-Friendly Options
- 6. Navigating High School Earth Science Proficiency Study Guide eBook Formats
 - o ePub, PDF, MOBI, and More
 - High School Earth Science Proficiency Study Guide Compatibility with Devices
 - High School Earth Science Proficiency Study Guide Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of High School Earth Science Proficiency Study Guide
 - Highlighting and Note-Taking High School Earth Science Proficiency Study Guide
 - Interactive Elements High School Earth Science Proficiency Study Guide
- 8. Staying Engaged with High School Earth Science Proficiency Study Guide
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers High School Earth Science Proficiency Study Guide
- 9. Balancing eBooks and Physical Books High School Earth Science Proficiency Study Guide
 - Benefits of a Digital Library
 - o Creating a Diverse Reading Collection High School Earth Science Proficiency Study Guide
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine High School Earth Science Proficiency Study Guide
 - Setting Reading Goals High School Earth Science Proficiency Study Guide
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of High School Earth Science Proficiency Study Guide

- Fact-Checking eBook Content of High School Earth Science Proficiency Study Guide
- Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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down. I admire your incredible attitude and sense of humor, and I really value our ...