

Explorations In Earth Science Lab Answers

"Earth Science opens with the Big Bang and then introduces basic plate tectonics, so students immediately experience the "action" of the Earth as a system. Learning objectives are identified at the beginning of each chapter and assessed at the end through questions that range from simple review to thought-provoking applications. Additionally, every chapter contains "How Can I Explain" features, which provide simple, hands-on projects that illustrate a key concept. The text's narrative art program explains earth science concepts by breaking down processes into a series of steps. Brief annotations embedded throughout the figures explain each phase. Features such as "What a Scientist Sees," "Science Toolbox," "A Deeper Look," "How Can I Explain," and "Putting Earth Science to Use," present real-world photos alongside drawings that simplify and amplify visual information, while "See For Yourself" features identify sample sites in Google Earth. Throughout, the authors' narrative approach to the content and innovative integration of new visual and interactive resources guides students to a clearer, more applicable understanding of the entire Earth System"--
Whether hiking along a mountain trail, driving down

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a highway, or making a decision about their energy usage, instructors want their students to see and assess the physical world they live in with more informed eyes. Through the most contemporary and applied text; the most vibrant visuals; and the most hands-on learning resources, Earth Science, Second Edition gets students leaving the class with a richer understanding of the science behind the physical world around them, and why it matters in their everyday lives.

Give students the most hands-on, applied, and affordable lab experience.

Explorations in Earth Science contains a collection of 68 laboratory investigations that can be incorporated into an Earth science course that covers geology, weather, climate, astronomy, and environmental issues. The variety of the exercises contained in the manual provides instructors with the flexibility to use those that suit their individual preferences and which they view as essential for their students. Included is a Prologue that contains activities that address the skills and concepts that are integrated throughout an Earth science course. The investigations are aligned with the New York State Math, Science, and Technology Standards and the National Science Education Standards. Appendices in the manual correlate labs to the New York State Physical Setting/Earth Science Core Curriculum and several well-known textbooks. Also included are appendices

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containing the Earth Science Reference Tables required by the New York State Physical Setting Core Curriculum and supplementary charts teachers will find useful in delivering their courses.

Incorporated into the Teacher's Edition is an appendix suggesting Internet sites appropriate for each chapter. Each laboratory investigation contains clearly stated instructions, report sheets, and questions that reflect both the procedural techniques and results students should obtain. Many labs can be adapted to an inquiry/problem-solving approach in which the written activity would often serve the teacher as a guide, but might not be used by students. The Teacher's Edition contains an array of suggested long-term investigations, an equipment and supplies list, and a comprehensive guide preceding each activity. This section is of great use to veteran teachers and is most valuable to teachers new to teaching Earth Science.

More than four decades have passed since a human first set foot on the Moon. Great strides have been made in our understanding of what is required to support an enduring human presence in space, as evidenced by progressively more advanced orbiting human outposts, culminating in the current International Space Station (ISS). However, of the more than 500 humans who have so far ventured into space, most have gone only as far as near-Earth orbit, and none have traveled beyond the orbit of the

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Moon. Achieving humans' further progress into the solar system had proved far more difficult than imagined in the heady days of the Apollo missions, but the potential rewards remain substantial. During its more than 50-year history, NASA's success in human space exploration has depended on the agency's ability to effectively address a wide range of biomedical, engineering, physical science, and related obstacles--an achievement made possible by NASA's strong and productive commitments to life and physical sciences research for human space exploration, and by its use of human space exploration infrastructures for scientific discovery. The Committee for the Decadal Survey of Biological and Physical Sciences acknowledges the many achievements of NASA, which are all the more remarkable given budgetary challenges and changing directions within the agency. In the past decade, however, a consequence of those challenges has been a life and physical sciences research program that was dramatically reduced in both scale and scope, with the result that the agency is poorly positioned to take full advantage of the scientific opportunities offered by the now fully equipped and staffed ISS laboratory, or to effectively pursue the scientific research needed to support the development of advanced human exploration capabilities. Although its review has left it deeply concerned about the current state of NASA's life and

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physical sciences research, the Committee for the Decadal Survey on Biological and Physical Sciences in Space is nevertheless convinced that a focused science and engineering program can achieve successes that will bring the space community, the U.S. public, and policymakers to an understanding that we are ready for the next significant phase of human space exploration. The goal of this report is to lay out steps and develop a forward-looking portfolio of research that will provide the basis for recapturing the excitement and value of human spaceflight--thereby enabling the U.S. space program to deliver on new exploration initiatives that serve the nation, excite the public, and place the United States again at the forefront of space exploration for the global good.

Designed to accompany Tarbuck and Lutgens' Earth Science and Foundations of Earth Science, this manual can also be used for any Earth science lab course and in conjunction with any text. It contains twenty-four step-by-step exercises that reinforce major topics in geology, oceanography, meteorology, and astronomy.

More than 20 countries generate electricity from geothermal resources and about 60 countries make direct use of geothermal energy. A ten-fold increase in geothermal energy use is foreseeable at the current technology level. Geothermal Energy: An Alternative Resource for the 21st Century provides a

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readable and coherent account of all facets of geothermal energy development and summarizes the present day knowledge on geothermal resources, their exploration and exploitation.

Accounts of geothermal resource models, various exploration techniques, drilling and production technology are discussed within 9 chapters, as well as important concepts and current technological developments. Interdisciplinary approach, combining traditional disciplines such as geology, geophysics, and engineering Provides a readable and coherent account of all facets of geothermal energy development Describes the importance of bringing potable water to high-demand areas such as the tropical regions

Although the Jet Propulsion Laboratory in Pasadena, California, has become synonymous with the United States' planetary exploration during the past half century, its most recent focus has been on Mars. Beginning in the 1990s and continuing through the Mars Phoenix mission of 2007, JPL led the way in engineering an impressive, rapidly evolving succession of Mars orbiters and landers, including roving robotic vehicles whose successful deployment onto the Martian surface posed some of the most complicated technical problems in space flight history. In *Exploration and Engineering*, Erik M. Conway reveals how JPL engineers' creative technological feats led to major breakthroughs in Mars exploration. He takes readers into the heart of the lab's problem-solving approach and management structure, where talented scientists grappled with technical challenges while also coping, not always successfully, with funding shortfalls,

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unrealistic schedules, and managerial turmoil. Conway, JPL's historian, offers an insider's perspective into the changing goals of Mars exploration, the ways in which sophisticated computer simulations drove the design process, and the remarkable evolution of landing technologies over a thirty-year period. "A masterpiece of research and writing."—Quest: History of Spaceflight Quarterly "A 'must' for any reader of modern astronomy who wants insights into how the lab conducts its research, solves problems, and handle[s] technological challenges."—Midwest Book Review "A great tale of ambition, mishap and recovery, building on extensive archival research and interviews with JPL managers, scientists and engineers, to deliver a detailed overview of each mission's feats and failures . . . Exploration and Engineering is a great book for everyone seriously interested in the struggles and achievements of JPL as NASA's centre for Mars exploration."—Sky at Night Erik M. Conway is a historian of science and technology at the Jet Propulsion Laboratory, California Institute of Technology. He is the author of Atmospheric Science at NASA: A History. The Congressional Record is the official record of the proceedings and debates of the United States Congress. It is published daily when Congress is in session. The Congressional Record began publication in 1873. Debates for sessions prior to 1873 are recorded in The Debates and Proceedings in the Congress of the United States (1789-1824), the Register of Debates in Congress (1824-1837), and the Congressional Globe (1833-1873) Petroleum Geochemistry and Exploration in the Afro-Asian Region includes 29 papers presented at the 6th International Conference on Petroleum Geochemistry and Exploration in the Afro-Asian Region. Petroleum geochemistry has played a crucial role in determining effective source rocks, classifying petroleum systems and delineating the geneses of

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conventional and unconventional oils and gases. By reference to petroleum geochemistry, the dynamic process of petroleum accumulations can be traced, which helps determining the prospecting target areas and reducing the exploration risk. Petroleum exploration is also enhanced by basin modeling and petroleum system classification, through the application of geochemical data. There has been significant progress in petroleum exploration due to the application of molecular geochemistry and biomarkers. Advances in this area include the identification and application of age-indicating biomarkers, the application of diamondoids in appraising the cracking level of crude oils, and the application of the compound-specific isotope analysis of biomarkers and the compound-specific isotope analysis of diamondoids (CSIAB and CSIAD) in oil-source correlation and quantitative identification of source-commingled oils. In reconstructing the history of oil and gas accumulations, three other techniques are of note: the dynamics of hydrocarbon generation, the dynamics of carbon isotopic fractionation and the analysis of liquid historical recordings (inclusions). Petroleum Geochemistry and Exploration in the Afro-Asian Region is an invaluable source of information for oil and gas explorers, petroleum geochemists and students of petroleum geochemistry. Researchers in petroleum companies and institutes will also find this publication useful.

The human impact on Earth's climate is often treated as a hundred-year issue lasting as far into the future as 2100, the year in which most climate projections cease. In *The Long Thaw*, David Archer, one of the world's leading climatologists, reveals the hard truth that these changes in climate will be "locked in," essentially forever. If you think that global warming means slightly hotter weather and a modest rise in sea levels that will persist only so long as fossil fuels hold out (or until we decide to stop burning them), think again.

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In *The Long Thaw*, David Archer predicts that if we continue to emit carbon dioxide we may eventually cancel the next ice age and raise the oceans by 50 meters. A human-driven, planet-wide thaw has already begun, and will continue to impact Earth's climate and sea level for hundreds of thousands of years. The great ice sheets in Antarctica and Greenland may take more than a century to melt, and the overall change in sea level will be one hundred times what is forecast for 2100. By comparing the global warming projection for the next century to natural climate changes of the distant past, and then looking into the future far beyond the usual scientific and political horizon of the year 2100, Archer reveals the hard truths of the long-term climate forecast. Archer shows how just a few centuries of fossil-fuel use will cause not only a climate storm that will last a few hundred years, but dramatic climate changes that will last thousands. Carbon dioxide emitted today will be a problem for millennia. For the first time, humans have become major players in shaping the long-term climate. In fact, a planetwide thaw driven by humans has already begun. But despite the seriousness of the situation, Archer argues that it is still not too late to avert dangerous climate change—if humans can find a way to cooperate as never before. Revealing why carbon dioxide may be an even worse gamble in the long run than in the short, this compelling and critically important book brings the best long-term climate science to a general audience for the first time. With a new preface that discusses recent advances in climate science, and the impact on global warming and climate change, *The Long Thaw* shows that it is still not too late to avert dangerous climate change—if we can find a way to cooperate as never before.

Teachers of Earth and environmental sciences in grades 8-12 will welcome this activity book centered on six OC data puzzles that foster critical-thinking skills in students

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and support science and math standards. Earth Science Puzzles presents professionally gathered Earth science data including graphs, maps, tables, images, and narratives and asks students to step into scientists' shoes to use temporal, spatial, quantitative, and concept-based reasoning to draw inferences from the data."

This brief, paperback version of the best-selling Earth Science by Lutgens and Tarbuck is designed for introductory courses in Earth science. The text's highly visual, non-technical survey emphasizes broad, up-to-date coverage of basic topics and principles in geology, oceanography, meteorology, and astronomy. A flexible design lends itself to the diversity of Earth science courses in both content and approach. As in previous editions, the main focus is to foster student understanding of basic Earth science principles. Used by over 1.5 million science students, the Mastering platform is the most effective and widely used online tutorial, homework, and assessment system for the sciences. This is the product access code card for MasteringX and does not include the actual bound book. Package contains: MasteringGeology standalone access card

Prentice Hall Physical Science: Concepts in Action helps students make the important connection between the science they read and what they experience every day. Relevant content, lively explorations, and a wealth of hands-on activities take students' understanding of science beyond the page and into the world around them. Now includes even more technology, tools and activities to support differentiated instruction!

DEEP LEARNING FOR THE EARTH SCIENCES Explore this insightful treatment of deep learning in the field of earth sciences, from four leading voices Deep learning is a fundamental technique in modern Artificial Intelligence and is being applied to disciplines across the scientific spectrum;

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earth science is no exception. Yet, the link between deep learning and Earth sciences has only recently entered academic curricula and thus has not yet proliferated. Deep Learning for the Earth Sciences delivers a unique perspective and treatment of the concepts, skills, and practices necessary to quickly become familiar with the application of deep learning techniques to the Earth sciences. The book prepares readers to be ready to use the technologies and principles described in their own research. The distinguished editors have also included resources that explain and provide new ideas and recommendations for new research especially useful to those involved in advanced research education or those seeking PhD thesis orientations. Readers will also benefit from the inclusion of: An introduction to deep learning for classification purposes, including advances in image segmentation and encoding priors, anomaly detection and target detection, and domain adaptation An exploration of learning representations and unsupervised deep learning, including deep learning image fusion, image retrieval, and matching and co-registration Practical discussions of regression, fitting, parameter retrieval, forecasting and interpolation An examination of physics-aware deep learning models, including emulation of complex codes and model parametrizations Perfect for PhD students and researchers in the fields of geosciences, image processing, remote sensing, electrical engineering and computer science, and machine learning, Deep Learning for the Earth Sciences will also earn a place in the libraries of machine learning and pattern recognition researchers, engineers, and scientists.

National Bestseller Winner of the National Book Critics Circle Award for Autobiography A New York Times Notable Book Geobiologist Hope Jahren has spent her life studying trees, flowers, seeds, and soil. Lab Girl is her revelatory treatise on plant life—but it is also a celebration of the lifelong curiosity,

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humility, and passion that drive every scientist. In these pages, Hope takes us back to her Minnesota childhood, where she spent hours in unfettered play in her father's college laboratory. She tells us how she found a sanctuary in science, learning to perform lab work "with both the heart and the hands." She introduces us to Bill, her brilliant, eccentric lab manager. And she extends the mantle of scientist to each one of her readers, inviting us to join her in observing and protecting our environment. Warm, luminous, compulsively readable, *Lab Girl* vividly demonstrates the mountains that we can move when love and work come together. Winner of the American Association for the Advancement of Science/Subaru Science Books & Film Prize for Excellence in Science Books Finalist for the PEN/E.O. Wilson Literary Science Writing Award One of the Best Books of the Year: *The Washington Post*, *TIME.com*, *NPR*, *Slate*, *Entertainment Weekly*, *Newsday*, *Minneapolis Star Tribune*, *Kirkus Reviews*

Travel through the exciting world of cartography with *Map Art Lab*. This fun and creative book features 52 map-related activities set into weekly exercises, beginning with legends and lines, moving through types and styles, and then creating personalized maps that allow you to journey to new worlds. Authors Jill K. Berry and Linden McNeilly guide readers through useful concepts while exploring colorful, eye-catching graphics. The labs can be used as singular projects or to build up to a year of hands-on creative experiences. *Map Art Lab* is the perfect book for map lovers, creative/DIY-inspired, designers. Artists of all ages and experience levels can use this book to explore enjoyable and engaging exercises. Everyone loves maps. And what's not to love? They are beautiful and fascinating, they teach you things, they show you where you are, places you long to go, and places you dare to imagine.

Project Earth Science: Physical Oceanography, Revised 2nd

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Edition, immerses students in activities that focus on water, the substance that covers nearly three-quarters of Earth's surface. Eighteen ready-to-use, teacher-tested classroom activities and supplemental readings offer explorations and straightforward explanations to foster intuitive understanding of key science concepts. Students cover topics such as the structure of water molecules, saltwater and freshwater mixing, and tidal forces as they create waves, dissolve substances, float eggs, and more.

Conway, JPL's historian, offers an insider's perspective into the changing goals of Mars exploration, the ways in which sophisticated computer simulations drove the design process, and the remarkable evolution of landing technologies over a thirty-year period.

This lab manual provides Skill Sheets and includes traditional lab exercises as well as inquiry-based lab activities.

Learn physics, chemistry and biology in your own backyard! At-home science provides an environment for freedom, creativity and invention that is not always possible in a school setting. In your own backyard, it's simple, inexpensive, and fun to whip up a number of amazing science experiments using the great outdoors. Science can be found all around in nature. Backyard Science Lab for Kids offers 52 fun science activities for families to do together. The experiments can be used as individual projects, for parties, or as educational activities for groups. Backyard Science Lab for Kids will tempt families to learn about physics, chemistry and biology in their backyards. Learn scientific survival skills and even take some experiments to the playground! Many of the experiments are safe enough for toddlers and exciting enough for older kids, so families can discover the joy of science together.

Encounter Geosystems gives you a new way to visualize key topics in physical geography using online geobrowser technology. Each exploration consists of a worksheet and a

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corresponding Google Earth™ KMZ file, available for download from www.mygeoscienceplace.com.

Is it time to refresh the way you think about teaching Earth science? *Learning to Read the Earth and Sky* is the multifaceted resource you need to bring authentic science—and enthusiasm—into your classroom. It offers inspiration for reaching beyond prepared curricula, engaging in discovery along with your students, and using your lessons to support the Next Generation Science Standards (NGSS). The book provides • examples of Earth science labs and activities you and your students can do as co-investigators; • insights into student expectations and misconceptions, plus ideas for inspiring true investigation; • stories of real scientific discovery translated for classroom consideration; • exploration of how you can mentor students as a teacher-scholar; and • guidance on how to translate the sweeping core ideas of the NGSS into specific examples students can touch, see, and experience. The authors of *Learning to Read the Earth and Sky* are husband-and-wife educators who promote science as something to figure out, not just something to know. They write, “It is our hope that readers will find our book short on ‘edu-speak,’ long on the joy of doing science, and full of stories of students, classrooms, scientists, and Earth and sky.”

Utilizing graphs and simple calculations, this clearly written lab manual complements the study of earth science or physical geology. Engaging activities are designed to help students develop data-gathering skills (e.g., mineral and rock identification) and data-analysis skills. Students will learn how to understand aerial and satellite images; to perceive the importance of stratigraphic columns, geologic sections, and seismic waves; and more. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

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Concepts before computation is what this Hewitt text is all about. The text brings physics, chemistry, earth science, and astronomy together in a manner that captivates students' interest. This is serious science in a very readable and student-friendly format. With an emphasis on qualitative analysis, students get a gut feel for the science they're studying. Students will learn to appreciate and differentiate among major scientific ideas rather than reduce them to algebraic problem solving. This sets the foundation for more serious study of the life sciences in subsequent courses.

A complete history of human endeavors in space, this book also moves beyond the traditional topics of human spaceflight, space technology, and space science to include political, social, cultural, and economic issues, and also commercial, civilian, and military applications.

- 580 articles describing various aspects of manned and unmanned space exploration, including a full range of social, technological, and political issues, such as government policy, nationalism, and the technology/military-driven economy
- Six overview essays, introducing each of the encyclopedia's major sections and putting that aspect of space exploration into historical context
- 136 contributors, many who are leading space historians and experts affiliated with the American Astronautical Society, make firsthand knowledge and fresh insights accessible to all audiences
- Numerous photos, including stunning shots from space, star charts, technical drawings, and more
- Short bibliographies conclude each entry, pointing readers to the best sources to find out more about the topic
- A Glossary defining the various technical terms encountered in the encyclopedia

Ideal for undergraduates with little or no science background, Earth Science is a student-friendly overview of our physical environment that offers balanced, up-to-date coverage of geology, oceanography, astronomy, and meteorology. The

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authors focus on readability, with clear, example-driven explanations of concepts and events. The Thirteenth Edition incorporates a new active learning approach, a fully updated visual program, and is available for the first time with MasteringGeology--the most complete, easy-to-use, engaging tutorial and assessment tool available, and also entirely new to the Earth science course.

Understanding the effects of natural and human-induced changes on the global environment and their implications requires a foundation of integrated observations of land, sea, air and space, on which to build credible information products, forecast models, and other tools for making informed decisions. The 2007 National Research Council report on decadal survey called for a renewal of the national commitment to a program of Earth observations in which attention to securing practical benefits for humankind plays an equal role with the quest to acquire new knowledge about the Earth system. NASA responded favorably and aggressively to this survey, embracing its overall recommendations for Earth observations, missions, technology investments, and priorities for the underlying science. As a result, the science and applications communities have made significant progress over the past 5 years. However, the Committee on Assessment of NASA's Earth Science Program found that the survey vision is being realized at a far slower pace than was recommended, principally because the required budget was not achieved. Exacerbating the budget shortfalls, NASA Earth science programs experienced launch failures and delays and the cost of implementing missions increased substantially as a result of changes in mission scope, increases in launch vehicle costs and/or the lack of availability of a medium-class launch vehicle, under-estimation of costs by the decadal survey, and unfunded programmatic changes that were

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required by Congress and the Office of Management and Budget. In addition, the National Oceanic and Atmospheric Administration (NOAA) has made significant reductions in scope to its future Earth environmental observing satellites as it contends with budget shortfalls. Earth Science and Applications from Space: A Midterm Assessment of NASA's Implementation of the Decadal Survey recommends a number of steps to better manage existing programs and to implement future programs that will be recommended by the next decadal survey. The report also highlights the urgent need for the Executive Branch to develop and implement an overarching multiagency national strategy for Earth observations from space, a key recommendation of the 2007 decadal survey that remains unfulfilled.

This book comprises over 60 original and fully refereed technical presentations focused on geological analysis and testing of rocks, ores, minerals and elements correlated with gold mineralization and mining in the Great Basin region of the United States. Detailed geological data derived from advanced techniques is supplied for dozens of proven and currently explored mineral-rich areas in Nevada, California, Idaho, Utah, Washington and Alaska, as well as in Mexico and Chile. A wealth of analytic information, including full-color charts and maps, is presented on working gold, silver and copper mines opened or re-opened within the last 10 years, as well as on geological formations identified as promising for high-value future gold discoveries. Written by industry, government, and university researchers, these two volumes provide a wide range of stratigraphic, lithographic, remote-sensing models and core sample analyses, especially of rocks and ores likely to host Carlin-type gold deposits. Original research is presented on geothermal, geochemical, photoluminescent, tectonic and trace element investigations of geological phenomena associated with epithermal gold

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mineralization. Chapters of the book are peer-reviewed versions of presentations originally delivered at a symposium organized by the Geological Society of Nevada. The CD-ROM displays figures and illustrations in articles in full color along with a title screen and main menu screen. Each user can link to all papers from the Table of Contents and Author Index and also link to papers and front matter by using the global bookmarks which allow navigation of the entire CD-ROM from every article. Search features on the CD-ROM can be by full text including all key words, article title, author name, and session title. The CD-ROM has Autorun feature for Windows 2000 or higher products and can also be used with Macintosh computers. The CD includes the program for Adobe Acrobat Reader with Search 9.0. One year of technical support is included with your purchase of this product.

The manual was written to accompany a QSL grade 6 lab kit which includes supplies and equipment for each lab as well as a student journal and a teacher answer guide. Life Science lab topics: Food Webs, Ecosystem Exploration, Renewable and Non-Renewable Resources Earth Science lab topics: Properties of Soil, Climates and Microclimates, Glaciers and the Changes They Make, Layers of the Earth, Plate Tectonics, Earthquakes, and the Rock Cycle

Explorations in Earth Science
The Physical Setting
Exploring Earth Science by Reynolds/Johnson is an innovative textbook intended for an introductory college geology course, such as Earth Science. This groundbreaking, visually spectacular book was designed from cognitive and educational research on how students think, learn, and study. Nearly all information in the book is built around 2,600 photographs and stunning illustrations, rather than being in long blocks of text that are not articulated with figures. These annotated illustrations help students visualize geologic processes and concepts, and are suited to the way

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most instructors already teach. To alleviate cognitive load and help students focus on one important geologic process or concept at a time, the book consists entirely of two-page spreads organized into 20 chapters. Each two-page spread is a self-contained block of information about a specific topic, emphasizing geologic concepts, processes, features, and approaches. These spreads help students learn and organize geologic knowledge in a new and exciting way. Inquiry is embedded throughout the book, modeling how scientists investigate problems. The title of each two-page spread and topic heading is a question intended to get readers to think about the topic and become interested and motivated to explore the two-page spread for answers. Each chapter is a learning cycle, which begins with a visually engaging two-page spread about a compelling geologic issue. Each chapter ends with an Investigation that challenges students with a problem associated with a virtual place. The world-class media, spectacular presentations, and assessments are all tightly articulated with the textbook. This book is designed to encourage students to observe, interpret, think critically, and engage in authentic inquiry, and is highly acclaimed by reviewers, instructors, and students.

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