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From energy and water resources to natural disasters, and from changing climatic patterns to the evolution of the Earth's deep interior, geoscience research affects people's lives in many ways and on many levels. This book offers a stimulating cross-disciplinary perspective on the important relationship between geoscience research and outreach activities for schools and for the general public. The contributors – academics, research scientists, science educators and outreach program educators – describe and evaluate outreach programs from around the world. A section entitled Field-based Approaches includes a chapter describing an initiative to engage Alaskan communities and students in research, and another on problem-based learning in the field setting. The Online Approaches section discusses ways to connect students and scientists using online forums; use of the web and social media, including the United Nations University and its experience with the design of a web magazine featuring geoscience research; and video clips on marine geoscience created by students and scientists. The section on Workshop and Laboratory-based Approaches includes a chapter on teaching geochronology to high school students, and another describing an extracurricular school activity program on meteorology. The Program Design section presents chapters on Integrating Geoscience Research in Primary and Secondary Education, on ways to bridge research with science education at the high school level, and on use of online geoscience data from the Great Lakes. The concluding section, Promoting Research-enhanced Outreach, offers chapters on Geoscience Outreach Education with the local community by a leading research-

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intensive university, and on the use of research to promote action in Earth science professional development for schoolteachers. Geoscience Research and Outreach: Schools and Public Engagement will benefit geoscience researchers who wish to promote their work beyond academia. It offers guidance to those seeking research funding from agencies, which increasingly request detailed plans for outreach activities in research proposals. Policymakers, educators and scientists working in museums, learned societies and public organizations who wish to widen participation will also find this book useful. Together with the companion volume Geoscience Research and Education: Teaching at Universities, this book showcases the key role that geoscience research plays in a wide spectrum of educational settings.

The Web is notoriously unreliable, yet it is the first place many students look for information. How can students, teachers, parents, and librarians be certain that the information a Web site provides is accurate and age appropriate? In this unique book, experienced science educator Judith A. Bazler reviews hundreds of the most reliable earth science-related Web sites. Each review discusses the most appropriate grade level of the site, analyzes its accuracy and usefulness, and provides helpful hints for getting the most out of the resource. Sites are organized by topic, from Air Movements to Wetlands, making it easy to locate the most useful sites. A handy summary presents the best places on the Web to find information on science museums, science centers, careers in the earth sciences, and supplies.

Provides hands-on inquiry activities and curriculum resources for teaching students in grades five through eight about rocks and minerals.

CD-ROM: Create interactive science voyages and conduct experiments. Includes quizzes.

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Topics include: the history of the science of geology, layers of the earth; plate tectonics; sedimentary, igneous, and metamorphic rocks; soil, weathering, and erosion; the rock cycle; and fossils. Glossary, materials lists, inquiry investigation rubric, and bibliography are included. --P. [4] of cover.

Focus on Earth Science: California, Grade 6 McGraw-Hill/Glencoe California Earth Science Teacher's Guide. Reading and writing in Science. Grade 6 Earth Science Grade 6 McDougal Littell Science California McDougal Littell/Houghton Mifflin Focus on Earth Science, California, Grade 6: Reading Essentials: An Interactive Student Textbook McGraw-Hill/Glencoe Science California Grade 6 Teachers Edition Earth Science McDougal Littell/Houghton Mifflin Science Note-Taking Reading Study Guide Earth Science Grade 6 McDougal Littell Science California McDougal Littell/Houghton Mifflin Science Standards Review and Practice Book Earth Science Grade 6 McDougal Littell Science California McDougal Littell/Houghton Mifflin California Focus on Earth Science Science & Technology Datasheets for Lab Book Earth Science Grade 6 Holt Science & Technology, California Science & Technology Study Guide B With Directed Reading Worksheets Earth Science Grade 6 Holt Science & Technology California Holt Rinehart & Winston Science Grade 6 Earth Science Replacement Package Unit 5-6 Harcourt School Publishers Science

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What activities might a teacher use to help children explore the life cycle of butterflies? What does a science teacher need to conduct a "leaf safari" for students? Where can children safely enjoy hands-on experience with life in an estuary? Selecting resources to teach elementary school science can be confusing and difficult, but few decisions have greater impact on the effectiveness of science teaching. Educators will find a wealth of information and expert

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guidance to meet this need in *Resources for Teaching Elementary School Science*. A completely revised edition of the best-selling resource guide *Science for Children: Resources for Teachers*, this new book is an annotated guide to hands-on, inquiry-centered curriculum materials and sources of help in teaching science from kindergarten through sixth grade. (Companion volumes for middle and high school are planned.) The guide annotates about 350 curriculum packages, describing the activities involved and what students learn. Each annotation lists recommended grade levels, accompanying materials and kits or suggested equipment, and ordering information. These 400 entries were reviewed by both educators and scientists to ensure that they are accurate and current and offer students the opportunity to: Ask questions and find their own answers. Experiment productively. Develop patience, persistence, and confidence in their own ability to solve real problems. The entries in the curriculum section are grouped by scientific area--Life Science, Earth Science, Physical Science, and Multidisciplinary and Applied Science--and by type--core materials, supplementary materials, and science activity books. Additionally, a section of references for teachers provides annotated listings of books about science and teaching, directories and guides to science trade books, and magazines that will help teachers enhance their students' science education. *Resources for Teaching Elementary School Science* also lists by region and state about 600 science centers, museums, and zoos where teachers can take students for interactive science experiences. Annotations highlight almost 300 facilities that make significant efforts to help teachers. Another section describes more than 100 organizations from which teachers can obtain more resources. And a section on publishers and suppliers give names and addresses of sources for materials. The

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guide will be invaluable to teachers, principals, administrators, teacher trainers, science curriculum specialists, and advocates of hands-on science teaching, and it will be of interest to parent-teacher organizations and parents.

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