

## Rocks And Fossils Gareth Stevens Vital Science Earth Science

*Here's help in selecting current, nonfiction books that will get boys excited about reading. • Citations for over 1,700 current nonfiction titles published between 2007–2009 that will appeal to boys • Interviews with seven authors, including Kadir Nelson, author of We Are the Ship, recent winner of numerous children's literature awards, and a great role model for young male readers • Nonfiction booktalks that can be used word-for-word when presenting books to students • Reproducible booklists • Photos of featured male authors • Book cover illustrations While some scientists look to the stars, others look at the ground. Geologists are scientists who study the rocks under our feet, the soil in our gardens, and the many processes that make Earth continuously shape and reshape itself, such as weathering and erosion. This appealing book focuses on the different kinds of geologists and the significant work they do. It also describes the rock cycle, plate tectonics, and some other important earth-science concepts that will inspire readers to consider a career in geology. Paleontology is one of the most intriguing careers for those who have a passion for prehistoric life--or just dinosaurs! While we get to see the fruits of a successful excavation at museums, it's extremely challenging to locate fossils, unearth them, and identify the remains. In this remarkable book, future fossil hunters will discover how paleontologists do what they do--and learn about opportunities for getting started early on this awesome profession. Fun infographics, interesting fact boxes, and captivating sidebars abound in this beautifully designed volume, which supports the elementary science curriculum. Explains how sedimentary rocks are formed, describes their common characteristics, and introduces certain types of sedimentary rocks, including flint, chalk, and limestone.*

**The Essential Selection and User's Guide**

**Crystals and Gemstones; Fossils; Minerals; Rocks**

**Soil**

**Sandstone and Other Sedimentary Rocks**

*Intended to support the national initiative to strengthen learning in areas of science, technology, engineering, and mathematics, this book helps librarians who work with youth in school and public libraries to build better collections and more effectively use these collections through readers' advisory and programming. • Introduces more than 500 STEM resource suggestions for toddlers to young adults • Highlights more than 25 detailed library program or activity suggestions to be paired with STEM book titles • Provides resource suggestions for professional development • Contains bonus sections on STEM-related graphic novels, apps, and other media*

*Provides statistics and political and physiographic maps for the world, each continent, and the United States, with political maps, flags, and statistics for each country, Canadian province, and state of the United States.*

*Explores such aspects of rocks as their location, how they are formed, what they are made of, their appearance, how they can be dated, and their changing nature.*

*Learning how Earth, mountains, oceans, and other fantastic landforms were formed millions of years ago truly expands a young reader's concept of their own life and the world around them. This geology-themed book full of fun, easily digestible facts provides engaging insights into the planet we call home. Essential earth science concepts are explained in accessible language and accompanied by fantastic, full-color photographs and dynamic graphic organizers, making this volume invaluable for visual learners and a value to any library collection.*

*Earth's Core and Crust*

*Gotcha Again for Guys! More Nonfiction Books to Get Boys Excited about Reading*

*20 Fun Facts About Geology*

*Minerals*

*Describes the different kinds of rocks found in the Earth, how they are formed, and how they shape the landscape.*

*"Fact Finders is published by Capstone Press."*

*Provides an overview of metamorphic rocks including how they are formed, where they are found, their characteristics, history, significance, and uses.*

*Introduces the layers of the Earth's atmosphere and discusses weather patterns, clouds and precipitation, and the effects of global warming on the climate.*

**Gareth Stevens Vital Science Library Set**

**Metamorphic Rocks**

**Gareth Stevens Atlas of the World**

**Under the Ground**

*Discusses the properties of water, explains its importance to life on Earth and Earth's climate, and describes the places and forms in which water is found on Earth and in the solar system.*

*Describes how rocks become soil, the importance of soil in the environment, and the physical characteristics of different kinds of soils.*

*Describes the different kinds of rocks and minerals found on Earth, explains how they can change over time, and discusses how fossils are formed and studied.*

*Gareth Stevens Vital Science books are designed to help prepare students for NCLB science testing by reinforcing key concepts across the science curriculum. The six volumes in Earth Science use clear language and a variety of photographs, illustrations, and diagrams to help students understand the properties of rocks, soils, water, gases, and fossils. Weather, biomes and ecosystems, and earth's core and crust are also covered, making this a comprehensive and indispensable resource.*

*Digging Up Petrified Forests*

*A Record of Earth's History*

*Igneous Rocks*

*Rocks and Fossils*

*Explains how ecosystems, including food webs and natural cycles, work to move energy around the planet.*

*This book is an introduction to igneous rocks, telling how they are formed, the different types, and how they are used.*

*Much of Earth is made up of rock, including the continents and even the melted rock of the planet's core. Rock is present in all shapes, sizes, and compositions. Readers will learn about the natural processes involved in creating different kinds of rock. Accessible science content that supports the curriculum enhanced by colorful photographs will engage geology enthusiasts and curious minds alike. A simple graphic organizer and fact boxes full of more information add even more excitement for readers.*

*Discusses the properties of the Earth's layers, explains how plate techtonics help to form the planets geographic features, and describes how earthquakes and volcanoes occur.*

**Gareth's Guide to Unearthing a Dinosaur**

**Under Our Feet (Set)**

**Biomes and Ecosystems**

**Sedimentary Rocks**

They don't wear bling. They aren't mobbed by fans or hounded by photographers. And they'll never make the cover of a music magazine. Meet some rock stars of a different sort—the building blocks of Earth beneath your feet!

Within the rock cycle, there are so many other processes! Weather, erosion, and the creation of metamorphic, igneous, and sedimentary rock are all part of the greater process scientists call the rock cycle. In this colorful and engaging volume, readers read about each process in accessible language and then review it in an easy-to-follow flowchart. Full of Earth science content that supports classroom learning, the main content guides readers through important subject areas including what rock is made of, how minerals are used, and metal mining. Full-color photographs correlate to and complement each chapter.

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Introduces fossils, describing how they are formed, where they are found, how they are identified, and how they are dated.

Rocks

Earth's Rocks and Fossils

Gareth Stevens Vital Science : Earth Science

Gareth Stevens Vital Science Library: Earth Science Set

Learn how crystals and gemstones form, how scientists identify them, and how people use them.

The Common Core State Standards require schools to include writing in a variety of genres across the disciplines. Engaging Students in Academic Literacies provides specific information to plan and carry out genre-based writing instruction in English for K-5 students within various content areas. Informed by systemic functional linguistics—a theory of language IN USE in particular ways for particular audiences and social purposes—it guides teachers in developing students' ability to construct texts using structural and linguistic features of the written language. This approach to teaching writing and academic language is effective in addressing the persistent achievement gap between ELLs and "mainstream" students, especially in the context of current reforms in the U.S. Transforming systemic functional linguistics and genre theory into concrete classroom tools for designing, implementing, and reflecting on instruction and providing essential scaffolding for teachers to build their own knowledge of its essential elements applied to teaching, the text includes strategies for apprenticing students to writing in all genres, features of elementary students' writing, and examples of practice.

Have you ever wondered what's under your front lawn or the sidewalk you walk on in front of your house? This unique and entertaining set will answer all your questions and more! From what makes up and lives in dirt to famous fossil finds, each book focuses on one major category concerning what might be found under our feet: soil, fossils, rocks, and even people--bones! Written using age-appropriate examples and language, this set augments the elementary science curriculum and encourages curiosity in budding scientists.

Petrified forests are some of the coolest-looking fossils that scientists find and study. They can tell us so much about the past, including what Earth was like before humans arrived. How do these amazing remains form? Why? Readers can find the answers to these questions within the pages of this book, complete with close-up photographs of petrified wood they might never otherwise see. The age-appropriate narrative supports science class learning and fun fact boxes give readers even more information about these amazing fossils.

The Rock Cycle

Best STEM Resources for NextGen Scientists: The Essential Selection and User's Guide

Earth's Resources

Promoting a Global Community Through Multicultural Children's Literature

**Rocks and Fossils**

**Discusses the natural resources found on Earth, including air, water, minerals, soil, and fossil fuels; explains the actions that threaten the abundance or existence of these resources; and describes sources of renewable energy.**

**Much of Earth is made up of rock, including the continents and even the melted rock of the planet's core. Rock is present in all shapes, sizes, and compositions. Readers will learn about the natural processes involved in creating different kinds of rock. Accessible science content that supports the curriculum enhanced by colorful photographs will engage geology enthusiasts and curious minds alike. A simple graphic organizer and fact boxes full of more information add even more excitement for readers.**

**Presents an introduction to rocks, discussing how they are formed, where they are found, the three basic types of rock, and how to start a rock collection.**

**Fossils**

**Properties of Water**

**Minerals, Rocks, and Soil**

Describes what the different kinds of rocks are, their properties, and what they are used for and explains what fossils and fossil fuels are.

Presents an introduction to minerals, discussing how they are formed, their shape, color, hardness, how they are used, and how to start a collection.

Presents an annotated bibliography of multicultural books, organized into sections dealing with celebrations and culture, nomads and the homeless, literacy, books that bring people together, and multicultural books in series.

Describes how sedimentary rocks are formed, where they are found, and their uses.

Air and Weather

Genre-based Pedagogy for K-5 Classrooms

Engaging Students in Academic Literacies

Crystals and Gemstones

Learn how fossils form and find out what these traces of ancient life tell us.

There's only so far people can go underground. Eventually, heat and pressure become too much, and scientists have to rely on technology to record information for them. Readers learn all about the latest science being done underground, including research on fossils and fossil fuels, volcanoes, soil, and more. From geology to seismology, several different kinds of science are discussed, emphasizing many exciting STEM careers readers might strive for. Full-color photographs show scientists hard at work and explore some of the coolest new technology for mining, fossil digs, and cave research.

The Nature and Science of Rocks

Rock Stars

Be a Geologist