

What Is Earth Science?

KEY IDEAS

As you read this section, keep these questions in mind:

- What are two cultures that contributed to modern science?
- What are the four main branches of Earth science?
- How do Earth scientists help us understand the world?

How Did Ancient People Study Earth?

People have wondered about natural events on Earth for thousands of years. They felt earthquakes shake the ground, saw volcanoes erupt, and watched eclipses darken the sky.

Some people created myths or stories to explain how these events happened. Others carefully watched and studied these events. They tried to learn what caused the events. Each time someone discovered a possible cause, it helped people develop explanations for other events.

The table below shows some historical observations that were important to the study of Earth.

Approximate Date	Development
780 BCE	People in China began to keep records about earthquakes.
200 BCE	Ancient Greeks gathered and recorded information about rocks and minerals.
300–900 CE	Ancient Maya watched the moon and recorded information about eclipses.
1600s	The microscope was invented.
1700s	The telescope was invented.

For a long time, people could use only their unaided eyes to study Earth and space. After the telescope and microscope were invented, people could observe objects and events more clearly. For example, Galileo used a telescope to see Jupiter's moons.

Today, scientists continue to study the natural world. **Earth science** is the study of Earth and the universe around it. Earth scientists use observations and experiments to find the causes of events in nature. 

READING TOOLBOX

Organize As you read this section, make a spider map that identifies the major branches of Earth science. Add details about each branch, such as what it focuses on and how knowledge from that branch can be helpful to society.



READING CHECK

1. Define What is Earth science?

Section 17 Earth Science Worksheet Answers

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Spaulding**



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Earth Science Samuel N. Namowitz, Nancy E. Spaulding, 1989 *Holt Science and Technology* Holt, Rinehart and Winston Staff, 2001 *Prentice Hall Physical Science Concepts in Action Program Planner National Chemistry Physics Earth Science*, 2003-11 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 **Concepts of Earth Science & Chemistry Parent Lesson Plan** John Hudson Tiner, 2013-08-26 Concepts of Earth and Chemistry Course Description This is the suggested course sequence that allows one core area of science to be studied per semester You can change the sequence of the semesters per the needs or interests of your student materials for each semester are independent of one another to allow flexibility Semester 1 Earth Blending a creationism perspective of history with definitions of terms and identification of famous explorers scientists etc this book gives students an excellent initial knowledge of people and places encouraging them to continue their studies in depth Semester 2 Chemistry Chemistry is an amazing branch of science that affects us every day yet few people realize it or even give it much thought Without chemistry there would be nothing made of plastic there would be no rubber tires no tin cans no televisions no microwave ovens or something as simple as wax paper This book presents an exciting and intriguing tour through the realm of chemistry as each chapter unfolds with facts and stories about the discoveries of discoverers Find out why pure gold is not used for jewelry or coins Join Humphry Davy as he made many chemical discoveries and learn how they shortened his life See how people in the 1870s could jump over the top of the Washington Monument Exploring the World of Chemistry brings science to life and is a wonderful learning tool with many illustrations and biographical information **Army JROTC Leadership Education & Training: Geography and earth science**, 2002 *Holt Science and Technology* Holt Rinehart & Winston, Holt, Rinehart and Winston Staff, 2001 **Sample Campus Environmental Audits**, 2005 *Earth Science*, 2001 *Resources in Education*, 2001-10 *Glencoe Sci Earth Science Chapter 14 Geologic Time Chp Res 513* 2002 McGraw-Hill Staff, 2001-08 *Glencoe Sci Earth Science Chapter 21 Our Impact on Water and Air Chp Res 519* 02 McGraw-Hill Staff, 2001-08 **Perfect Genius NCERT Science & Social Science Worksheets for Class 5 (based on Bloom's taxonomy) 2nd Edition** Disha Experts, 2019-07-19 *The Science Hub-TM* Preetika Sawhney, Archana Sashi Kumar, Neha Jindal, Gautam Bindal, Shalini Samadhiya and Tripti Mehta, A Book on Science Teacher Manual The ebook version does not contain CD **The Science Teacher's Toolbox** Tara C. Dale, Mandi S. White, 2020-04-28 A winning educational formula of engaging lessons and powerful strategies for science teachers in numerous classroom settings The Teacher s Toolbox series is an innovative research based resource providing teachers with instructional strategies for students of all levels and abilities Each book in the collection focuses on a specific content area

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