

Earth Science/Geology

GRADE LEVEL:

Jr. High and High School

Scope and Sequence

COURSE OVERVIEW:

Rocks firmly anchored to the ground and rocks floating through space fascinate us. Jewelry, houses, and roads are just some of the ways we use what has been made from geologic processes to advance civilization. Whether scrambling over a rocky beach, or gazing at spectacular meteor showers, we can't get enough of geology! *The Geology Book* will teach you about the varied features of the Earth's surface (from plains to peaks), how sedimentary deposition occurs through water, wind, and ice, effects of erosion, fossilization and the age of the dinosaurs, radioisotope and carbon dating, and more. Our planet is a most suitable home. Its practical benefits are also enhanced by the sheer beauty of rolling hills, solitary plains, churning seas and rivers, and majestic mountains - all set in place by processes that are relevant to today's entire population of this spinning rock we call home.

FEATURES:

This title is an integral part of the best-selling Wonders of Creation Series. Each book includes over 200 beautiful full-color photos and illustrations, charts, graphs, glossary and index. The correlating study guides make them the perfect subject-intensive product. All seven titles are available in a discounted package, and include the books and study guides. Subjects covered in this series include archaeology, caves, oceans, geology, weather, astronomy, and fossils.

CONTENT FOCUS:

Chapter 1: Planet Earth

Concepts for discussion:

- Inside the Earth
- Why the Earth is unique for life

Chapter 2: The ground we stand upon

Concepts for discussion:

- Formation and identification of igneous rocks
- Formation and identification of sedimentary rocks
- Formation and identification of metamorphic rocks

Chapter 3: The Earth's surface

Concepts for discussion:

- How plains are formed
- How plateaus are formed
- How mountains are formed

Chapter 4: Geological processes and rates

Concepts for discussion:

- Normal processes of erosion
- Rapid erosive processes
- Deposition, compaction, fossilization, volcanism, and the deformation of rocks

Chapter 5: Ways to date the entire Earth

Concepts for discussion:

- Dating methods utilizing ocean chemicals and erosion
- Dating methods utilizing the magnetic field

Chapter 6: Great geologic events of the past

Concepts for discussion:

- The processes of creation
- The Fall and its effect on creation
- How the Flood might have shaped the land and the Ice Age

Chapter 7: Questions people ask

Concepts for discussion:

- How the Grand Canyon was formed
- The formation of petrified wood, stalactites, coal and more
- The abundance of dinosaur fossils

Chapter 8: The future earth

Concepts for discussion:

- The end of the Earth
- The new heavens and new Earth



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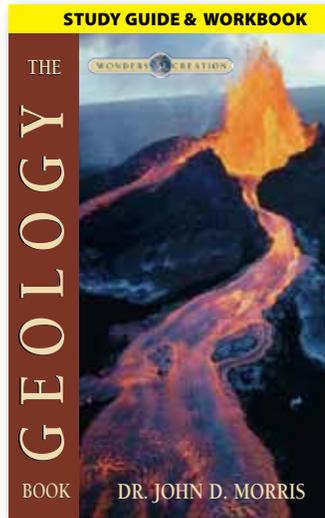
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STUDY GUIDE:

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3. What factors influence whether a rock will "break" or "break"?

4. Write a short paper on continental separation using just the facts given in the text. (Older students should use other materials as well as those in the text—see www.answersingenesis.org/tectonics.)

Terms to define

Fumaroles

Geyser

Fault

Metamorphism

Activities

1. You might want to do a more in-depth study of volcanoes. Research some of the more famous volcanoes that have erupted in the past. When did they erupt? What devastating to the surrounding areas were they? What types of devastation did they cause? How often do these volcanoes erupt? How long do the eruptions last? (For additional information, visit www.answersingenesis.org and search for "volcano.")
2. This is week 4 of this experiment started in Lesson 3. Has your mound decreased any? What caused this decrease?

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Metamorphism / Radioisotope Decay

Text: Pages 46-53

Scripture: Psalm 18

Questions

1. In your own words, describe the different ways metamorphic rocks are thought to form.

2. What are unstable atoms called? What is the most well-known radioactive atom?

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