

Name _____ Class _____ Date _____

Chapter 1 Introduction to Earth Science

Summary

1.1 What Is Earth Science?

☞ Earth science is the name for the group of sciences that deals with Earth and its neighbors in space.

- **Geology** means “study of Earth.” Geology is divided into physical geology and historical geology.
- **Oceanography** is the study of the Earth’s oceans, as well as coastal processes, seafloor topography, and marine life.
- **Meteorology** is the study of atmosphere and the processes that produce weather and climate.
- **Astronomy** is the study of the universe.

☞ The nebular hypothesis suggests that the bodies of our solar system evolved from an enormous rotating cloud called the solar nebula. It was made up mostly of hydrogen and helium, with a small percentage of heavier elements.

- Shortly after the Earth formed, melting occurred in the Earth’s interior. Gravity caused denser elements to sink to Earth’s center. Less dense elements floated toward the surface. As a result, Earth is made up of layers of materials that have different properties.

1.2 A View of Earth

☞ Earth can be thought of as consisting of four major spheres: the hydrosphere, atmosphere, geosphere, and biosphere.

- The **hydrosphere** is the water portion of Earth.
- The **atmosphere** is an envelope of gases that surrounds Earth.
- The **geosphere** is the layer of Earth under both the atmosphere and the oceans. It includes the core, the mantle, and the crust.
- The **biosphere** is made up of all life on Earth.

☞ Because the geosphere is not uniform, it is divided into three main parts based on differences in composition—the core, the mantle, and the crust.

- The **core**, Earth’s innermost layer, is located just below the mantle.
- The **mantle** is 2890 kilometers thick. It is located below the Earth’s crust and above the Earth’s core.
- The **crust** is the thin, rocky, outer layer of Earth.

☞ The theory of plate tectonics provided geologists with a model to explain how earthquakes and volcanic eruptions occur and how continents move.

- Destructive forces wear away Earth’s surface.
- Constructive forces build up the Earth’s surface.
- Tectonic plates move constantly over the Earth’s mantle.

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JG Myers



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Table of Contents Pearson Education Answer Key Science

1. Understanding the eBook Pearson Education Answer Key Science
 - The Rise of Digital Reading Pearson Education Answer Key Science
 - Advantages of eBooks Over Traditional Books
2. Identifying Pearson Education Answer Key Science
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Pearson Education Answer Key Science
 - User-Friendly Interface
4. Exploring eBook Recommendations from Pearson Education Answer Key Science
 - Personalized Recommendations
 - Pearson Education Answer Key Science User Reviews and Ratings
 - Pearson Education Answer Key Science and Bestseller Lists
5. Accessing Pearson Education Answer Key Science Free and Paid eBooks
 - Pearson Education Answer Key Science Public Domain eBooks
 - Pearson Education Answer Key Science eBook Subscription Services
 - Pearson Education Answer Key Science Budget-Friendly Options
6. Navigating Pearson Education Answer Key Science eBook Formats

- ePub, PDF, MOBI, and More
- Pearson Education Answer Key Science Compatibility with Devices
- Pearson Education Answer Key Science Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Pearson Education Answer Key Science
 - Highlighting and Note-Taking Pearson Education Answer Key Science
 - Interactive Elements Pearson Education Answer Key Science
- 8. Staying Engaged with Pearson Education Answer Key Science
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Pearson Education Answer Key Science
- 9. Balancing eBooks and Physical Books Pearson Education Answer Key Science
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Pearson Education Answer Key Science
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Pearson Education Answer Key Science
 - Setting Reading Goals Pearson Education Answer Key Science
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Pearson Education Answer Key Science
 - Fact-Checking eBook Content of Pearson Education Answer Key Science
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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