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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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**Frederick K. Lutgens, Edward J.
Tarbuck**



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Earth Science Edward J. Tarbuck, Kenneth G. Pinzke, 2002-07-01 Includes chapter overviews learning objectives chapter summaries key terms review sections practice tests and answer keys Earth Science: the Physical Setting Paola Santagostino, Prentice Hall (School Division), 2005 Focusing on the Earth Science content tested on the Regents Examination this thorough review guide contains extensive vocabulary review questions and Memory Jogger and Digging Deeper features Hundreds of practice questions organized in the Regents Examination format help students familiarize themselves with look and feel of the actual exam **Brief Review in Earth Science** Jeffrey C. Callister, 2003-06 Foundations of Earth Science Frederick K. Lutgens, Edward J. Tarbuck, 2003 For courses in Earth Science This brief paperback version of the best selling Earth Science offers a user friendly overview of the physical environment It retains the hallmarks professors expect from Fred Lutgens and Ed Tarbuck a student friendly writing style carefully crafted art program and coverage of the most recent current events For the first time each copy of the text comes packaged with the GEODE Earth Science student CD ROM GEODE Earth Science covers all major areas of Earth Science with an updated geology unit broad coverage of the oceans basic meteorology and the solar system along with many new animations video clips and interactive activities

Classroom Assessment James H. McMillan, 2004 This book provides prospective and current teachers with a concise non technical and practical guide to conducting a full range of high quality classroom assessments The text emphasizes assessment in the context of the realities of teaching and teacher decision making as well as on how assessment is integrated with instruction Assessment methods are integrated with instruction and presented according to when teachers evaluate students before during and after an instructional unit and the learning targets that are measured There is considerable emphasis on the nature of learning targets and how different assessments are most appropriate for different targets For each assessment technique suggestions for effective practice are presented with examples and case studies There are separate chapters on contemporary assessment techniques and issues such as performance and portfolio assessments as well as separate chapters on assessing affective targets and students with disabilities included in the regular classroom A balance is provided with traditional forms of assessment and the need for teachers to administer interpret and use results from standards based large scale assessments and other standardized tests

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 - The Rise of Digital Reading Pearson Education Earth Science Answer Key
 - Advantages of eBooks Over Traditional Books
2. Identifying Pearson Education Earth Science Answer Key
 - 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 Earth Science Answer Key
 - User-Friendly Interface
4. Exploring eBook Recommendations from Pearson Education Earth Science Answer Key
 - Personalized Recommendations
 - Pearson Education Earth Science Answer Key User Reviews and Ratings
 - Pearson Education Earth Science Answer Key and Bestseller Lists

5. Accessing Pearson Education Earth Science Answer Key Free and Paid eBooks
 - Pearson Education Earth Science Answer Key Public Domain eBooks
 - Pearson Education Earth Science Answer Key eBook Subscription Services
 - Pearson Education Earth Science Answer Key Budget-Friendly Options
6. Navigating Pearson Education Earth Science Answer Key eBook Formats
 - ePub, PDF, MOBI, and More
 - Pearson Education Earth Science Answer Key Compatibility with Devices
 - Pearson Education Earth Science Answer Key Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Pearson Education Earth Science Answer Key
 - Highlighting and Note-Taking Pearson Education Earth Science Answer Key
 - Interactive Elements Pearson Education Earth Science Answer Key
8. Staying Engaged with Pearson Education Earth Science Answer Key
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Pearson Education Earth Science Answer Key
9. Balancing eBooks and Physical Books Pearson Education Earth Science Answer Key
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Pearson Education Earth Science Answer Key
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Pearson Education Earth Science Answer Key
 - Setting Reading Goals Pearson Education Earth Science Answer Key
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Pearson Education Earth Science Answer Key
 - Fact-Checking eBook Content of Pearson Education Earth Science Answer Key
 - 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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