

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.

Answer Key For Pearson Earth Science

**Edward J. Tarbuck, Frederick K.
Lutgens, Kenneth G. Pinzke, Dennis
Tasa**

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Grammar Guide for Speech-Language Pathologists Marilyn A. Nippold, 2023-02-24 Having a strong grasp of English grammar and its intricacies is vital for speech language pathologists Grammar Guide for Speech Language Pathologists Steps to Analyzing Complex Syntax provides an up to date comprehensive and clear workbook for analyzing the structural foundation of language The text covers parts of speech word types morphemes phrases clauses and simple and complex sentences Each topic begins with a clear definition followed by multiple examples and exercises to gain a thorough understanding of how to identify the unit and how it functions in spoken and written communication With 40 years of experience in teaching research and writing Dr Marilyn A Nippold has assembled the aspects of grammar that students are most likely to find challenging when working with children adolescents and adults This guide also offers current methods of language assessment and intervention and case studies of speakers of African American English and Mainstream American English whose language samples provide evidence of strong weak or disordered language development Key Features Clear and explicit exercises cover each aspect of grammar with answer keys Step by step explanation of key aspects of grammar leading up to complex syntax Relevant definitions and examples of each aspect of grammar *Earth Science* Jeffrey C. Callister, 2006 **Foundations of Earth Science** Frederick K. Lutgens, Edward J. Tarbuck, 2002 The truth of the serial murders in Hinamizawa is revealed at last in the final arc of the bestselling series When her parents are killed in a terrible train accident a young Miyo Takano is sent to live at an orphanage deep in the mountains Little does she know that her parents deaths are just the beginning of her hell the institution is run by a group of greedy cruel men who care nothing for the grief stricken girl Subjected to abuses beyond imagining Miyo and her roommates plan to escape despite rumors of the terrible punishments that befell past runaways **Chemistry** Patrick Kavanah, 2004-08-30 **Spinoff**, 2006 **Science Explorer Environmental Science Guided Reading and Study Workbook 2005c** Michael J. Padilla, Ioannis Miaoulis, Martha Cyr, Prentice Hall Direct Education Staff, 2004-04 1 Populations and Communities 2 Ecosystems and Biomes 3 Living Resources 4 Land Water and Air Resources 5 Energy Resource *Earth Deep Interior: High-pressure Experiments and Theoretical Calculations From the Atomic to the Global Scale* Lidong Dai, Haiying Hu, Jianjun Jiang, Xi Liu, Geeth Manthilake, Vassilios Saltas, 2022-07-12 **Supercontinent Cycles Through Earth History** Z.X. Li, D.A.D. Evans, J.B. Murphy, 2016-05-20 The supercontinent cycle hypothesis attributes planetary scale episodic tectonic events to an intrinsic self organizing mode of mantle convection governed by the buoyancy of continental lithosphere that resists subduction during the closure of old ocean basins and the consequent reorganization of mantle convection cells leading to the opening of new ocean basins Characteristic timescales of the cycle are typically 500 to 700 million years Proposed spatial patterns of cyclicity range from hemispheric introversion to antipodal extroversion to precisely between those end members orthoversion Advances in our understanding can arise from theoretical or numerical modelling primary data acquisition

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