

6th Grade Earth Science Semester 1 Exam Study Guide

S6E5 a. Compare and contrast the Earth's crust, mantle, and core including temperature, density, and composition.

- Describe the state of matter and composition of the mantle (for all 3 layers). **Crust: solid rock, mostly granite and basalt; Mantle: Solid and liquid rock; Core: outer core is liquid iron and nickel, inner is solid iron and nickel**
- Which layer of earth is made up of tectonic plates? **lithosphere**
- How do we know what the inside of the earth looks like and what it is made of? **By recording and studying seismic waves**
- What happens to the earth's pressure the deeper you go into the earth? **It increases**
- The Outer Core** is responsible for making the earth's magnetic field.
- The core is mostly made up of **iron & nickel**
- Describe the difference between the core and the mantle in terms of temperature and density: **the core has higher temperatures and density**

S6E5 b. Investigate the contribution of minerals to rock composition.

- What are minerals made of? **elements**
- What do all minerals have in common? **inorganic, solid, naturally formed, crystal structure, unique make-up/composition**
- True or **False**: Minerals are or once were organic.
- Define the following terms as they relate to minerals:
Streak: **the color of the mineral in its powdered form**
Luster: **way the mineral reflects light (metallic, dull, glassy, etc)**
Cleavage: **tendency of a mineral to break in smooth pattern**
Fracture: **tendency of a mineral to break in a rough and jagged manner**

Mineral	Hardness	Way it breaks	Luster	Streak	Color
Galena	2.5	cleavage	metallic	gray-black	silver, gray
Magnetite	6	fracture	metallic	black	black
Hematite	6	fracture	metallic-dull	red-brown	red-brown, silver, black

- Use the chart above to answer this question: Susan wants to identify a dark, heavy mineral sample she found in the classroom collection. She notices there are three minerals in a chart in a reference book that might match her sample. Susan next observes that her sample mineral has flat, reflective surfaces that break into boxlike steps. She infers the mineral may be galena. If she is correct, one more test will verify her inference. Which property would be best for her to observe next? **hardness**

S6E5 c. Classify rocks by their process of formation.

- What is the difference between intrusive and extrusive? **Intrusive is formed inside the earth by the cooling of magma; extrusive is formed outside the earth by the cooling of lava**
- How do each of the following rock types form?
Sedimentary: **WEDOC**
Metamorphic: **heat and /or pressure**
Igneous: **melting and cooling of magma/lava**
- Why do some igneous rocks have holes? **Bubbles of air were trapped in the rock when it cooled**
- Tell about the traits that are unique to each type of rock:
Sedimentary: **breaks easily/ crumbly, fossils, layers, pebbles are visible**
Metamorphic: **small crystals, bands**
Igneous: **smooth and glassy, gas bubble holes, large crystals**

S6E5 f. Explain the effects of physical processes (plate tectonics, erosion, deposition, volcanic eruption, gravity) on geological features including oceans (composition, currents, and tides).

- Tectonic plates are found in which layer of earth? **lithosphere**

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Table of Contents Science Study Guide For 6th Graders

1. Understanding the eBook Science Study Guide For 6th Graders
 - The Rise of Digital Reading Science Study Guide For 6th Graders
 - Advantages of eBooks Over Traditional Books
2. Identifying Science Study Guide For 6th Graders
 - 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 Science Study Guide For 6th Graders
 - User-Friendly Interface
4. Exploring eBook Recommendations from Science Study Guide For 6th Graders
 - Personalized Recommendations
 - Science Study Guide For 6th Graders User Reviews and Ratings
 - Science Study Guide For 6th Graders and Bestseller Lists
5. Accessing Science Study Guide For 6th Graders Free and Paid eBooks
 - Science Study Guide For 6th Graders Public Domain eBooks
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 - ePub, PDF, MOBI, and More
 - Science Study Guide For 6th Graders Compatibility with Devices
 - Science Study Guide For 6th Graders Enhanced eBook Features
7. Enhancing Your Reading Experience
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 - Highlighting and Note-Taking Science Study Guide For 6th Graders
 - Interactive Elements Science Study Guide For 6th Graders
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 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Science Study Guide For 6th Graders
9. Balancing eBooks and Physical Books Science Study Guide For 6th Graders
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Science Study Guide For 6th Graders
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Science Study Guide For 6th Graders
 - Setting Reading Goals Science Study Guide For 6th Graders
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Science Study Guide For 6th Graders
 - Fact-Checking eBook Content of Science Study Guide For 6th Graders
 - 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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