

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.

1. 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**
2. Which layer of earth is made up of tectonic plates? **lithosphere**
3. How do we know what the inside of the earth looks like and what it is made of? **By recording and studying seismic waves**
4. What happens to the earth's pressure the deeper you go into the earth? **It increases**
5. **The Outer Core** is responsible for making the earth's magnetic field.
6. The core is mostly made up of **iron & nickel**
7. 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.

8. What are minerals made of? **elements**
9. What do all minerals have in common? **inorganic, solid, naturally formed, crystal structure, unique make-up/composition**
10. True or **False**: Minerals are or once were organic.
11. 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 |

12. 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.

13. 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**
14. How do each of the following rock types form?
Sedimentary: **WEDOC**
Metamorphic: **heat and /or pressure**
Igneous: **melting and cooling of magma/lava**
15. Why do some igneous rocks have holes? **Bubbles of air were trapped in the rock when it cooled**
16. 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).

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

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Michael Brown



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