



6TH GRADE EARTH SCIENCE

Semester 1 Exam

Study Guide Questions

S6E5b

**Investigate the
contributions of minerals
to rock composition**

8. What are minerals made of?

- Minerals are 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 organic.

■ False

11. Define the following terms as they relate to minerals:

- Streak
 - The color of the mineral in its powdered form is streak.
- Luster
 - The way mineral reflects light (metallic, dull, glassy, etc.) is the luster.
- Cleavage
 - The tendency of a mineral to break in a smooth pattern is the cleavage
- Fracture
 - The tendency of a mineral to break in a rough and jagged manner is the fracture.

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. Susan wants to identify a dark, heavy mineral sample she 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