

Name: _____

Date: _____ Period: _____

Minerals & Rocks

The Physical Setting: Earth Science

Worksheet: Minerals

1. Which common nonmetallic mineral has a white-yellow streak?
 - a. graphite
 - b. calcite
 - c. sulfur
 - d. dolomite
2. The mineral mica breaks evenly along flat sheets mainly because of its
 - a. density
 - b. chemical composition
 - c. atomic arrangement
 - d. hardness
3. Which mineral has nonmetallic luster, exhibits cleavage, and feels greasy?
 - a. halite
 - b. gypsum
 - c. talc
 - d. olivine
4. Which property is most useful in mineral identification?
 - a. size
 - b. color
 - c. texture
 - d. hardness
5. Certain minerals usually break along flat surfaces, while other minerals break unevenly. This characteristic is due to the
 - a. luster of the mineral
 - b. age of the mineral
 - c. force with which the mineral is broken
 - d. internal arrangement of the mineral's atoms
6. The physical properties of a mineral are largely due to its
 - a. internal arrangement of atoms
 - b. volume
 - c. organic composition
 - d. melting point
7. Which element combines with silicon to form the tetrahedral structure of the silicate minerals?
 - a. nitrogen
 - b. potassium
 - c. hydrogen
 - d. oxygen

Worksheet: Minerals

8. Quartz mineral samples are best identified by their
 - a. hardness
 - b. color
 - c. size
 - d. mass

9. Which property is least useful in mineral identification?
 - a. streak
 - b. color
 - c. luster
 - d. hardness

10. Which property of a mineral most directly results from the internal arrangement of its atoms?
 - a. volume
 - b. color
 - c. crystal shape
 - d. streak

11. Which common mineral fizzes when dilute hydrochloric acid (HCl) is placed on it?
 - a. calcite and feldspar
 - b. feldspar and quartz
 - c. quartz and dolomite
 - d. calcite and dolomite

12. Which of the following minerals has metallic luster, silver color, black streak, and contains iron?
 - a. graphite
 - b. galena
 - c. magnetite
 - d. pyrite

13. The minerals talc, muscovite mica, quartz, and olivine are similar because they
 - a. have the same hardness
 - b. are the same color
 - c. contain silicon and oxygen
 - d. break along cleavage planes

14. Which mineral is commonly mined as a source of the element lead (Pb)?
 - a. galena
 - b. magnetite
 - c. quartz
 - d. gypsum

15. Which mineral will scratch fluorite, galena, and pyroxene?
 - a. graphite
 - b. calcite
 - c. olivine
 - d. dolomite