



Name \_\_\_\_\_ Class \_\_\_\_\_ Date \_\_\_\_\_

1 For a substance to be called a **mineral** it must meet **four criteria**. Which of the following is **not** part of the **definition of a mineral**? Circle the answer letter.

- a. it is a solid
- b. it has a crystal structure
- c. it is made from organic materials
- d. it is formed in nature

6 The mineral **mica** breaks when hit with a rock hammer. This mineral breaks in **smooth, flat surfaces** because it \_\_\_\_\_.

- a. is very hard
- b. has a regular arrangement of atoms
- c. has an irregular arrangement of atoms



2 Which mineral leaves a **green-black powder** when rubbed against an unglazed porcelain plate? Circle it.

galena      graphite



7 What is the best way to **determine** if a mineral sample is **calcite or quartz**?

- a. Place the mineral near a magnet.
- b. Measure the mass of the mineral.

3 This is the \_\_\_\_\_ a \_\_\_\_\_ b \_\_\_\_\_ c \_\_\_\_\_



## PREVIEW

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4 This \_\_\_\_\_ g \_\_\_\_\_ p \_\_\_\_\_

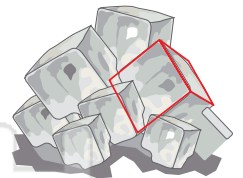
minerals?

- a. color
- b. luster
- c. hardness

Group A	Group B
olivine	pyrite
garnet	galena
calcite	graphite

has a hardness of 10, and splits with **cubic cleavage**?

- calcite      mica
- halite      pyrite



5 The **internal atomic structure** of a mineral most likely **determines** the mineral's \_\_\_\_\_.

- a. color, streak, and age
- b. origin, exposure, and fracture
- c. hardness, cleavage, and crystal shape

10 An unidentified mineral that is **softer than calcite** exhibits a **metallic luster** and **cubic cleavage**. This mineral most likely is \_\_\_\_\_.

galena      halite      quartz





# Minerals - Answer Key

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mineral.  
quartz  
matite  
d gypsum

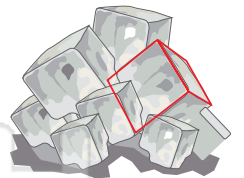
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- c. hardness

Group A	Group B
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garnet	galena
calcite	grapite

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