Minerals



Name _____ 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

galena

- b. it has a crystal structure
- c. it is made from organic materials
- d. it is formed in nature
- Which mineral leaves a green-black powder when rubbed against an unglazed porcelain plate? Circle it.

graphite

- 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
- 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.

mineral.



PREVIEW

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Jartz natite

colorless, s with

d gypsum

minerals?

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

Group A	Group B
olivine	pyrite
garnet	galena
calcite	grapite

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



Class Date Name The mineral mica breaks when hit with For a substance to be called a mineral it must meet four criteria. Which of the a rock hammer. This mineral breaks in following is not part of the definition of a smooth, flat surfaces because it mineral? Circle the answer letter. a. is very hard a. it is a solid b. has a regular b. it has a crystal structure arrangement of atoms c.) it is made from organic materials c. has an irregular arrangement of atoms d. it is formed in nature What is the best way to determine if a Which mineral leaves a green-black mineral sample is calcite or quartz? powder when rubbed against an unglazed a. Place the mineral near a magnet. porcelain plate? Circle it. b. Measure the mass of the mineral. galena graphite mineral. **PREVIEW** natite Please Sign In or Sign Up to download d gypsum the printable version of this worksheet colorless, with minerals? cubic cleavage? Group A **Group B** a. color olivine pyrite calcite mica b.) luster garnet galena halite pyrite c. hardness calcite grapite 10 An unidentified mineral that is softer The internal atomic structure of a mineral than calcite exhibits a metallic luster

most likely determines the mineral's

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

and cubic cleavage. This mineral most

likely is .

galena

halite

quartz