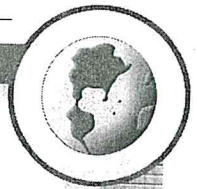


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ROCKS AND MINERALS



# Meet the Minerals

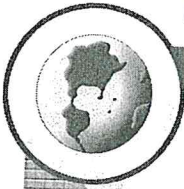
## WORD SEARCH

**DIRECTIONS:** Find the minerals vocabulary words in the word search below. Words can be found across, down, and diagonally. Then, on a separate piece of paper, write sentences for five of the words.

### WORD BANK

- |          |           |          |          |            |
|----------|-----------|----------|----------|------------|
| sulfur   | color     | streak   | mica     | Mohs scale |
| pyrite   | halite    | luster   | cleavage | fracture   |
| calcite  | magnetite | talc     | ore      | gems       |
| graphite | quartz    | hardness | crystal  | mineral    |

C I P L I Z A J P P O H I O Q O A J Q V  
L A F M F X W H G F C S A U X B C Y B O  
E K X O R W X R O S A U E R U T C V B U  
A I P H A K R U Q P L L T K D E A Q N M  
V K Y S C Q Q K C X C F N L V N A L D X  
A B R S T U H R M U I U W T U X E X C D  
G Q I C U A W T M P T R L Y H S E S N E  
E E T A R R V U R A E L L O R E T N S V  
A W E L E T P I L N G B I N N P T E V Q  
U G Q E U Z B S I D A N H T N T Y Y R M  
W N Y C E C S U D K S G E V V B E V Y K  
Y O A R S T R E A K R K S T M T W G Y I  
M X U Y J H E M I N E R A L I Z X T Q B  
R I H S O Q A F M Z Q S G H C T A P V D  
P T P T F L G L D Z E S P O A R E H P G  
Q D T A C I E V I P C A C L K O B E C E  
N I M L Z T M M I T R R Z B Y E R B O X  
Q E C U M P S N K G E X R J B O A I L X  
A S B E L H T G W N L A X U L P S I O G  
Z V H F J L X H A A B R G X K C E E R W



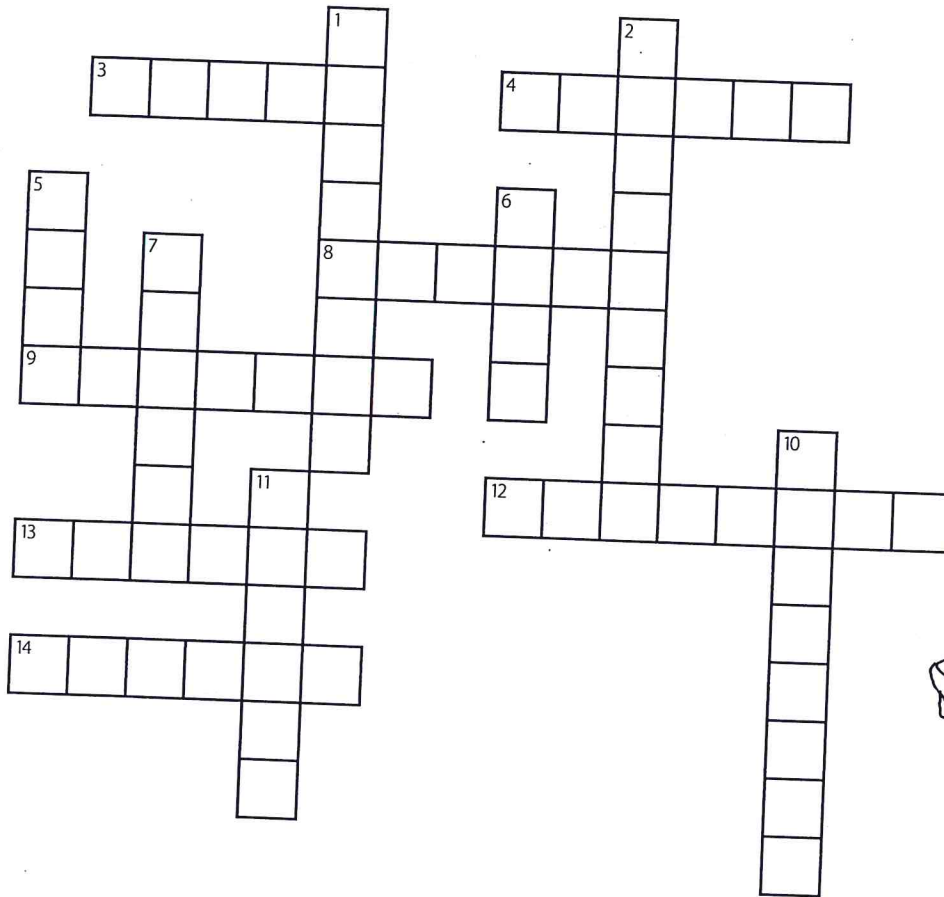
Name: \_\_\_\_\_ Date: \_\_\_\_\_

ROCKS AND MINERALS

# Meet the Minerals

CROSSWORD PUZZLE

**DIRECTIONS:** Complete the crossword puzzle.



### ACROSS

- 3. the least accurate way to identify a mineral
- 4. mineral with glassy luster, often clear or milky white
- 8. mineral whose common name is salt
- 9. A test for this mineral consists of pouring acid over the mineral.
- 12. describes how minerals break
- 13. fool's gold
- 14. the way light reflects off the surface of a mineral

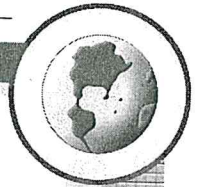
### DOWN

- 1. mineral used in pencils
- 2. magnetic mineral
- 5. mineral with silky luster that is used in baby powder
- 6. flat mineral with flaky cleavage
- 7. yellow mineral that smells like burnt matches
- 10. determined by using a fingernail, penny, or nail
- 11. the color of the powder that is left when a mineral is rubbed across a porcelain plate

Name: \_\_\_\_\_

Date: \_\_\_\_\_

ROCKS AND MINERALS



# Which Mineral Am I?

FILL IN THE BLANKS

**DIRECTIONS:** Read the clues that describe a type of mineral. Write the name of the mineral from the word bank on the line below its matching set of clues.

## WORD BANK

quartz

galena

graphite

talc

sulfur

magnetite

1. I am a yellow mineral.  
My hardness is 2.  
My streak is yellow.  
Some people say that I smell like burnt matches or rotten eggs.

**Which mineral am I?**

\_\_\_\_\_

2. I am a dark gray mineral.  
My hardness is 1.  
My streak is dark gray, and my luster is greasy.  
I am used in pencil lead.

**Which mineral am I?**

\_\_\_\_\_

3. I may contain silver.  
My cleavage is cubic.  
My streak is black or dark gray.  
My luster is metallic.

**Which mineral am I?**

\_\_\_\_\_

4. I am a mineral that can be many different colors.  
My hardness is 7.  
My streak is white.  
I am a common mineral in sand.

**Which mineral am I?**

\_\_\_\_\_

5. I am a gray, brownish-red, or black mineral.  
My hardness is 6-7.  
My streak is black.  
I am attracted to a magnet.

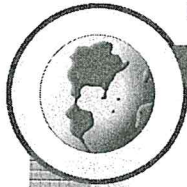
**Which mineral am I?**

\_\_\_\_\_

6. I am a white or light gray mineral.  
My hardness is 1.  
My streak is white.  
I am smooth to the touch, like soap.

**Which mineral am I?**

\_\_\_\_\_



Name: \_\_\_\_\_

Date: \_\_\_\_\_

## ROCKS AND MINERALS

# Mineral Matching

## MYSTERY WORD

Many of the objects that you use every day are created from **minerals**. The minerals that we mine from the earth help us perform many daily tasks and make our lives easier. Imagine what life might be like if we did not have some of these objects. If we did not have electrical wiring, we would not have electrical switches in our homes or schools. Without cement, our roads and sidewalks would not be usable for driving cars or riding bicycles.

**DIRECTIONS:** Write each letter in the correct blank to match each mineral to its common use. Within the answers of the first column, there is a hidden mystery vocabulary word. Use the clue at the bottom of the page to help you find it.

**Name of Mineral**

1. \_\_\_\_ halite
2. \_\_\_\_ mica
3. \_\_\_\_ quartz
4. \_\_\_\_ silver
5. \_\_\_\_ talc
6. \_\_\_\_ graphite
7. \_\_\_\_ calcite
8. \_\_\_\_ chalcopryite (copper ore)
9. \_\_\_\_ gypsum
10. \_\_\_\_ sulfur
11. \_\_\_\_ feldspar
12. \_\_\_\_ mercury
13. \_\_\_\_ chromium
14. \_\_\_\_ uranium

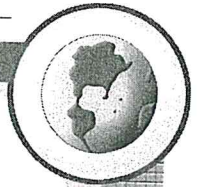
**Common Use**

- a. baby powder
- b. glass
- c. pencil lead
- d. electrical wiring
- e. fireworks
- f. paint
- g. food seasoning
- h. jewelry
- i. chalk
- j. thermometers
- k. atomic energy
- l. plaster and cement
- m. porcelain sinks
- n. car bumpers

**MYSTERY WORD:** This substance will fizz when placed on a calcite mineral.

\_\_\_\_\_

Name: \_\_\_\_\_ Date: \_\_\_\_\_



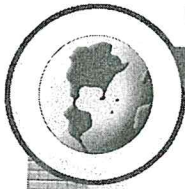
# Minerals All Around Us

FILL IN THE BLANKS

**DIRECTIONS: Minerals** can be found in many objects we use every day. Look around your classroom and think about which objects might be made from minerals. Use the minerals in the table below to identify other items in your classroom made from minerals.

Name of Mineral	Common Use
mica	paint, roofing materials, electronic insulators in televisions
pyrite	sulfuric acid (used in batteries)
quartz	glass, prisms, heat lamps
silver	mirrors, dental and medical equipment, photography, jewelry
sulfur	fertilizer, matches, fireworks, battery acid
hematite	iron products, some cosmetics (eye shadow), steel
halite	food seasoning, food preserver, water softener
gypsum	plaster, sheetrock, cement
chalcopryite (copper ore)	electrical wiring, plumbing pipes and tubing, coins
fluorite	pottery, ceramics, toothpaste
talc	baby powder
feldspar	porcelain toilets and sinks, ceramics, roofing materials, soap
calcite	chalk
graphite	pencil lead, lubrication for aircraft and auto instruments

Classroom Item	Mineral Used to Create It



Name: \_\_\_\_\_

Date: \_\_\_\_\_

ROCKS AND MINERALS

# Minerals Rock!

MYSTERY WORD

**DIRECTIONS:** Write each word in the correct blank below to match the word with its definition. Circle the named letter in each answer. Then, unscramble the circled letters to reveal the mystery word.

WORD BANK

magnetite

luster

color

fracture

graphite

gems

hardness

halite

cleavage

talc

streak

1. \_\_\_\_\_ breaking along smooth, flat surfaces (eighth letter)
2. \_\_\_\_\_ color left by a mineral in its powdered form (second letter)
3. \_\_\_\_\_ least accurate way to identify a mineral
4. \_\_\_\_\_ measure of how easily a mineral can be scratched (first letter)
5. \_\_\_\_\_ breaking along rough, jagged surfaces
6. \_\_\_\_\_ soft mineral often used in pencils (third letter)
7. \_\_\_\_\_ mineral used in food seasoning (fourth letter)
8. \_\_\_\_\_ mineral used to make baby powder (first letter)
9. \_\_\_\_\_ mineral that is attracted to a magnet (first letter)
10. \_\_\_\_\_ the way in which a mineral reflects light (fifth letter)
11. \_\_\_\_\_ the most prized of the minerals; includes diamonds, rubies, and emeralds

**MYSTERY WORD:** This mineral is used to create iron ore.

\_\_\_\_\_