

# How are minerals used?

## Lesson Review

**PART A** Match each mineral to its use. Write the letter of the mineral in the space provided.

Use	Mineral
_____ 1. drilling tools	a. mica
_____ 2. materials for walls and ceilings	b. talc
_____ 3. insulation in appliances	c. graphite
_____ 4. talcum powder	d. feldspar
_____ 5. dishes	e. diamond
_____ 6. pencil lead	f. gypsum

**PART B** Complete the following.

1. What two minerals are needed by people for strong bones and teeth? \_\_\_\_\_
2. What is an ore? \_\_\_\_\_
3. What is a gemstone? \_\_\_\_\_
4. What is the difference between a semiprecious stone and a precious stone? \_\_\_\_\_

## Skill Challenge

**Skills:** synthesizing, identifying

Use the chemical formula for each ore to identify the name of the metal that can be removed and used. Write the name of the metal in the table below. Then, use the list of ores in the box below to complete the table by writing the names of each ore next to the proper chemical formula. You may use reference materials to help you.

cuprous sulfide	bauxite	sphalerite
hematite	pyrite	galena

Chemical Formula	Metal Removed	Ore
1. $Al_2O_3$		
2. $FeS_2$		
3. $PbS$		
4. $Fe_2O_3$		
5. $ZnS$		
6. $Cu_2S$		

# Answer Key

## How are minerals used?

### Lesson Review

#### PART A

1. e 2. f 3. a 4. b 5. d 6. c

#### PART B

1. calcium and phosphorus 2. mineral that is mined because it contains useful metals or nonmetals 3. a rare, beautiful, long-lasting mineral
4. Semiprecious stones are more common than precious stones.

#### Skills Challenge

1. aluminum, bauxite 2. iron, pyrite 3. lead, galena
4. iron, hematite 5. zinc, sphalerite 6. copper, cuprous sulfide