

**CHAPTER REVIEW****Chapter 9****Discovering Elements****I. Vocabulary Review**

If the underscored word or phrase makes the sentence true, write "TRUE" in the space provided. If the underscored word or phrase makes the sentence false, write the correct term or phrase in the space provided.

- \_\_\_\_\_ 1. Metals that can be hammered without breaking are ductile.
- \_\_\_\_\_ 2. Nonmetals are poor conductors of heat and electricity.
- \_\_\_\_\_ 3. Elements with properties of both metals and nonmetals are coinage metals.
- \_\_\_\_\_ 4. There are fewer metallic elements than nonmetallic ones.
- \_\_\_\_\_ 5. Ductile metals can be pulled into wire.
- \_\_\_\_\_ 6. Most of your body is made of nonmetallic elements.
- \_\_\_\_\_ 7. Silver is used as a backing for mirrors because of its high luster.
- \_\_\_\_\_ 8. Most of the air you breathe is oxygen.

**II. Concept Review**

In the blank at the left, write the letter of the choice that best completes the statement or answers the question.

- \_\_\_\_\_ 9. The function of \_\_\_\_\_ in your blood is to carry oxygen from your lungs to the rest of your body.  
a. magnesium      b. nitrogen      c. iron      d. calcium
- \_\_\_\_\_ 10. Many nonmetals are \_\_\_\_\_.  
a. gases      b. conductors      c. shiny      d. malleable
- \_\_\_\_\_ 11. Shininess, malleability, and ductility are properties of \_\_\_\_\_.  
a. most metals      c. all elements  
b. most nonmetals      d. diamonds and carbon
- \_\_\_\_\_ 12. Metal poisoning can occur in the body when oxygen binds with \_\_\_\_\_.  
a. iron      b. mercury      c. calcium      d. nitrogen
- \_\_\_\_\_ 13. All of these elements are metals EXCEPT \_\_\_\_\_.  
a. aluminum      b. calcium      c. copper      d. fluorine
- \_\_\_\_\_ 14. Your bones contain the same metal that is found in \_\_\_\_\_.  
a. limestone      b. table salt      c. bananas      d. tooth fillings
- \_\_\_\_\_ 15. Which one of the following is NOT a metalloid?  
a. boron      b. silicon      c. germanium      d. titanium

### Chapter Review 9 (continued)

- \_\_\_\_\_ **16.** Silicon is important in the computer and electronics industry because it \_\_\_\_\_.  
**a.** combines easily with other metals      **c.** is full of little holes  
**b.** is used to make glass      **d.** conducts electricity
- \_\_\_\_\_ **17.** Hydrogen is a poor choice for hot air balloons because it \_\_\_\_\_.  
**a.** is denser than air    **b.** is lighter than air    **c.** explodes      **d.** is odorless
- \_\_\_\_\_ **18.** The one property shared by all metalloids is \_\_\_\_\_.  
**a.** conduction      **b.** malleability      **c.** luster      **d.** color

### III. Skills/Process Review

Use the table below to answer the following in the space provided.

- 19.** Name five metals that are found in this bottle of vitamins. \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Information from a label on a bottle of vitamins			
Vitamins	Quantity	Minerals	Quantity
Vitamin A	5000 I.U.	Iron	18 mg
Vitamin C	60 mg	Calcium	130 mg
Thiamine (B-1)	1.5 mg	Phosphorus	100 mg
Riboflavin (B-2)	1.7 mg	Iodine	150 mcg
Niacin	20 mg	Magnesium	100 mg
Vitamin D	400 I.U.	Copper	2 mg
Vitamin E	30 I.U.	Zinc	15 mg
Vitamin B-6	2 mg	Chromium	10 mcg
Folic acid	0.4 mg	Selenium	10 mcg
Vitamin B-12	6 mcg	Molybdenum	10 mcg
Biotin	30 mcg	Manganese	2.5 mg
Pantothenic acid	10 mg	Potassium	37.5 mg

- 20.** Name one nonmetal found in this bottle of vitamins. \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

- 21.** Explain the role of at least one metal in the body. \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

### IV. EYV Review

- 22. Technology Connection: Neon Lights** Summarize the feature's main ideas. \_\_\_\_\_  
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 \_\_\_\_\_  
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