Skills Worksheet)

## **Directed Reading B**

## Section: Covalent and Metallic Bonds (pp. 236-241) **COVALENT BONDS**

- \_\_\_\_ 1. What is formed when atoms share one or more pairs of electrons?
  - **a.** a covalent bond
  - **b.** a covalent compound
  - **c.** an ionic bond
  - **d.** an electric bond
  - **2.** What usually consists of two or more atoms joined in a definite ratio?
    - **a.** a bond
    - **b.** a valence electron
    - **c.** an atom
    - **d.** a molecule
- **3.** A model that shows only the valence electrons in an atom is a(n)

## COVALENT COMPOUNDS AND MOLECULES

- 4. What is the smallest particle into which a covalently bonded compound can be divided?
- 5. What is the relationship between diatomic molecules and diatomic elements? Name one example of a diatomic element.

6. Name two examples of substances that contain complex molecules.

## **METALLIC BONDS**

7. A bond formed by the attraction between positively charged metal ions and

the electrons in the metal is a(n) \_\_\_\_\_

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Name	Class	Date
Directed Reading B continued		
<b>8.</b> What allows valence electrons	s in metals to move	throughout the metal?
PROPERTIES OF METALS		
<b>9.</b> Give an example of how metallic bonding allows metals to conduct electric current.		
<b>10.</b> The property of drawn into wires.		
<b>11.</b> The property of hammered into sheets.	means	that a metal can be
<b>12.</b> Why doesn't a piece of metal break when it is bent?		