

SECTION

SUBSTANCES' PROPERTIES DEPEND ON THEIR BONDS.

2.3 | **Reading Study Guide B****BIG IDEA** The properties of compounds depend on their atoms and chemical bonds.**KEY CONCEPT** Substances' properties depend on their bonds.**Review**

Chemical bonds hold the atoms of compounds together.

Take Notes**I. Metals have unique bonds. (p. 56)**

1. In the table below, list three properties of metals that are the result of metallic bonds.

Property of Metals

II. Ionic and covalent bonds give compounds certain properties. (p. 57)

2. Next to each property, note the type of bond a substance having that property would likely possess. If you think two answers are possible, explain why.

a. A melting point of 1500 degrees _____

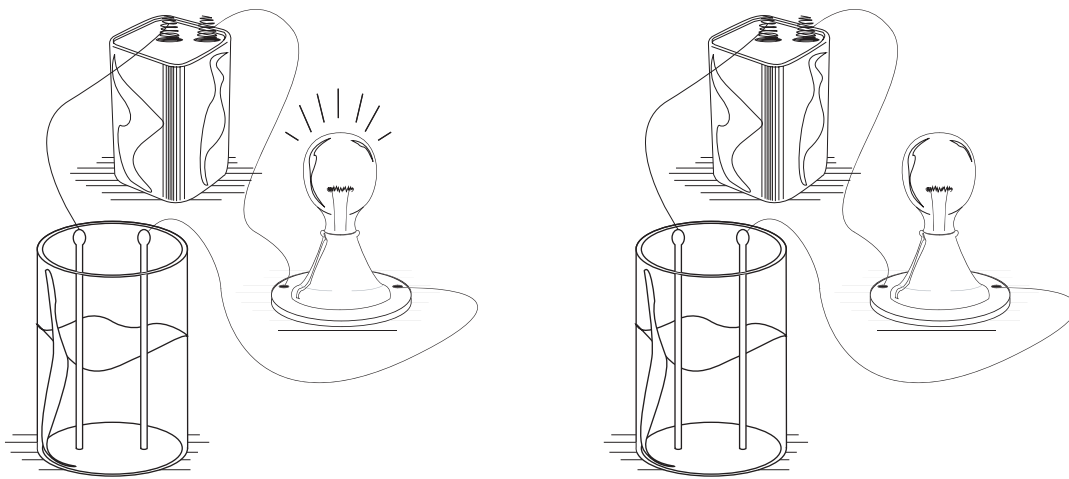
b. A liquid at room temperature _____

c. Will conduct an electric current as solid _____

d. Dissolves easily in water _____

e. Is very hard and brittle _____

3. Circle the drawing that shows an ionic compound in solution.



4. What kinds of compounds in the body transmit impulses between nerve and muscle cells?

III. Bonds can make the same element look different. (p. 58)

5. Name three forms of carbon. What form of carbon makes a good lubricant? Why?

