

**CHAPTER 6 REVIEW***Chemical Bonding***MIXED REVIEW**

**SHORT ANSWER** Answer the following questions in the space provided.

1. Name the type of energy that is a measure of strength for each of the following types of bonds:

\_\_\_\_\_ **lattice energy** \_\_\_\_\_ a. ionic bond  
 \_\_\_\_\_ **bond energy** \_\_\_\_\_ b. covalent bond  
 \_\_\_\_\_ **enthalpy of vaporization** \_\_\_\_\_ c. metallic bond

2. Use the electronegativity values shown in **Figure 20**, on page 161 of the text, to determine whether each of the following bonds is nonpolar covalent, polar covalent, or ionic.

\_\_\_\_\_ **ionic** \_\_\_\_\_ a. H—F \_\_\_\_\_ **nonpolar covalent** \_\_\_\_\_ d. H—H  
 \_\_\_\_\_ **ionic** \_\_\_\_\_ b. Na—Cl \_\_\_\_\_ **polar covalent** \_\_\_\_\_ e. H—C  
 \_\_\_\_\_ **polar covalent** \_\_\_\_\_ c. H—O \_\_\_\_\_ **polar covalent** \_\_\_\_\_ f. H—N

3. How is a hydrogen bond different from an ionic or covalent bond?

A hydrogen bond is a dipole-dipole attraction between a partially positive hydrogen atom and the unshared electron pair of a strongly electronegative atom such as O, N, or F. Unlike ionic or covalent bonds, in which electrons are given up or shared, the hydrogen bond is a weaker attraction. Hydrogen bonds are generally intermolecular, while ionic and covalent bonds occur between ions or atoms respectively.

4.  $\text{H}_2\text{S}$  and  $\text{H}_2\text{O}$  have similar structures and their central atoms belong to the same group. Yet  $\text{H}_2\text{S}$  is a gas at room temperature and  $\text{H}_2\text{O}$  is a liquid. Use bonding principles to explain why this is.

Oxygen has higher electronegativity than sulfur, which creates a highly polar bond. Increased polarity in  $\text{H}_2\text{O}$  bonds means a stronger intermolecular attraction, making water a liquid at room temperature. Hydrogen bonding exists between water molecules, but not between hydrogen sulfide molecules.

# Chapter 8 Covalent Bonding Study Answers

**A Loxley**



## **Chapter 8 Covalent Bonding Study Answers:**

## The Enigmatic Realm of **Chapter 8 Covalent Bonding Study Answers**: Unleashing the Language is Inner Magic

In a fast-paced digital era where connections and knowledge intertwine, the enigmatic realm of language reveals its inherent magic. Its capacity to stir emotions, ignite contemplation, and catalyze profound transformations is nothing short of extraordinary. Within the captivating pages of **Chapter 8 Covalent Bonding Study Answers** a literary masterpiece penned with a renowned author, readers embark on a transformative journey, unlocking the secrets and untapped potential embedded within each word. In this evaluation, we shall explore the book's core themes, assess its distinct writing style, and delve into its lasting affect the hearts and minds of those that partake in its reading experience.

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