

**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:

_____ <b>lattice energy</b> _____	<b>a.</b> ionic bond
_____ <b>bond energy</b> _____	<b>b.</b> covalent bond
_____ <b>enthalpy of vaporization</b> _____	<b>c.</b> 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.

_____ <b>ionic</b> _____	<b>a.</b> H—F	_____ <b>nonpolar covalent</b> _____	<b>d.</b> H—H
_____ <b>ionic</b> _____	<b>b.</b> Na—Cl	_____ <b>polar covalent</b> _____	<b>e.</b> H—C
_____ <b>polar covalent</b> _____	<b>c.</b> H—O	_____ <b>polar covalent</b> _____	<b>f.</b> 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. H<sub>2</sub>S and H<sub>2</sub>O have similar structures and their central atoms belong to the same group. Yet H<sub>2</sub>S is a gas at room temperature and H<sub>2</sub>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 H<sub>2</sub>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.

# Covalent Bonding Guided And Study Workbook Answers

**Arshad Iqbal**



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