

Chapter 6 Chemical Bonds

Section 6.3 Naming Compounds and Writing Formulas**(pages 170–175)***This section explains how to name and write formulas for ionic and molecular compounds.***Reading Strategy (page 170)**

Predicting Before you read, predict the meaning of the term *polyatomic ion*, and write your prediction in the table. After you read, if your prediction was incorrect, revise your definition. For more information on this Reading Strategy, see the **Reading and Study Skills** in the **Skills and Reference Handbook** at the end of your textbook.

Vocabulary Term	Before You Read	After You Read
Polyatomic ion		

Describing Ionic Compounds (pages 171–173)

1. Is the following sentence true or false? The name of an ionic compound must distinguish the compound from other ionic compounds containing the same elements. _____
2. What information is provided by the formula for an ionic compound? _____

3. Circle the letter of the word that describes a compound made from only two elements.
 - a. ionic
 - b. binary
 - c. diatomic
 - d. polar
4. Is the following sentence true or false? Names of anions are formed by placing the suffix *-ide* after part of the name of the nonmetal.

5. When a metal forms more than one ion, the name of the ion contains a Roman numeral to indicate the _____ on the ion.
6. What is a polyatomic ion? _____

7. Is the following sentence true or false? Because all compounds are neutral, the total charges on the cations and anions in the formula of an ionic compound must add up to zero. _____

