

Name \_\_\_\_\_ Date \_\_\_\_\_ Class \_\_\_\_\_

## CHAPTER 9

## STUDY GUIDE FOR CONTENT MASTERY

## Covalent Bonding

### Section 11 The Covalent Bond

In your textbook, read about the nature of covalent bonds.

Use each of the terms below just once to complete the passage.

covalent bond	molecule	sigma bond	exothermic	$\pi$ bond
---------------	----------	------------	------------	------------

When sharing electron pairs, the attachment between atoms that results is called a(n) **covalent bond**. When such an attachment is formed, bond dissociation energy is released, and the process is **exothermic**. When two or more atoms bond by means of electron sharing, the resulting particle is called a(n) **molecule**. If the electrons shared are contained between the two atoms, the attachment is called a(n) **sigma bond**. If the sharing involves the overlap of parallel orbitals, the attachment is called a(n)  **$\pi$  bond**.

In your textbook, read about single and multiple bonds and bond strengths.

Circle the letter of the choice that best completes the statement or answers the question.

- Is a pair from an element such as hydrogen, nitrogen, and oxygen normally **oxy**?
  - a single atom
  - a molecule containing three atoms
  - a molecule containing two atoms**
  - a molecule containing four atoms
- How many electrons are shared in a double covalent bond?
  - none
  - two
  - four
  - six**
- Bond length is the distance between
  - two molecules of the same substance
  - the nuclei of two attached atoms**
  - the electrons in two attached atoms
  - the orbitals of two attached atoms
- Which of the following relationships relating to bond length is generally correct?
  - As the number of bonds, the stronger the bond.**
  - As the number of bonds, the weaker the bond.
  - As the number of bonds, the fewer the electrons in it.
  - As the number of bonds, the lower the bond dissociation energy.

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Chemistry: Matter and Change • Chapter 9

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## CHAPTER 9 STUDY GUIDE FOR CONTENT MASTERY

### Section 12 Naming Molecules

In your textbook, read about how binary compounds and acids are named from their formulas.

For each statement below, write *true* or *false*.

- false** 1. Binary molecular compounds are generally composed of a metal and a nonmetal.
- false** 2. The second element in the formula of a binary compound is named using the suffix *-ite*.
- false** 3. The prefix *mono-* indicates three atoms.
- true** 4. The prefix *hepta-* indicates six atoms.
- true** 5. In naming the first element in a formula, the prefix *mono-* is not used.
- true** 6. For binary acids, the hydrogen part of the compound is named using the prefix *hydro-*.
- false** 7. An oxyacid contains only two elements.
- false** 8. If the name of the cation of an oxyacid ends in *-ite*, the acid name contains the suffix *-ate*.

In your textbook, read about naming molecular compounds and oxyacids.

For each item in Column A, write the letter of the matching item in Column B.

## Column A

- c.**  $\text{N}_2\text{O}$       **b.**  $\text{Cl}_2$
- f.**  $\text{NO}$       **d.**  $\text{CO}_2$
- g.**  $\text{H}_2\text{SO}_4$       **e.**  $\text{H}_2\text{CO}_3$
- h.**  $\text{H}_2\text{SO}_3$       **f.**  $\text{NO}_2$
- a.**  $\text{HNO}_3$       **b.**  $\text{H}_2\text{SO}_4$
- d.**  $\text{HNO}_2$       **e.**  $\text{H}_2\text{SO}_3$
- f.**  $\text{HNO}_3$       **g.**  $\text{H}_2\text{SO}_4$
- a.**  $\text{HNO}_2$       **h.**  $\text{H}_2\text{SO}_3$

## Column B

- a.** hydrobromic acid
- b.** nitrogen trioxide
- c.** carbon monoxide
- d.** nitrous acid
- e.** oxoanion
- f.** nitric acid
- g.** carbonic acid
- h.** bromic acid
- i.** carbon dioxide

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# Chapter 7 Study Guide For Content Mastery Answer Key

**Garry Martin, James Grayson Osborne**



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