

**CHAPTER 9** STUDY GUIDE FOR CONTENT MASTERY

## Covalent Bonding

**Section 11 The Covalent Bond**

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

Underline the terms below just now to complete the passage.

covalent bond	valence	sigma bond	double bond	p bond
When sharing of electrons occurs, the electrons between atoms that results is called	(a) <b>covalent bond</b>	When such as the bond is formed by electrons between two atoms		

(a) **covalent bond** When such as the bond is formed by electrons between two atoms, and the product is (b) **neutrophil**. When two or more atoms bond by means of sharing, during the resulting product is called an (c)  **molecule**. If the electrons shared are located between the two atoms, the valence is called and (d) **sigma bond**. If the electrons shared are located between the two atoms, the product molecule, the electrons is called and (e) **p bond**.

In your textbook, read about single and double bonds, and bond strength.

Circle the letter of the theory that best completes the statement in answer to the question.

4. In what form do electrons in two hydrogen, nitrogen, and oxygen atoms bond?

a. as single atoms  
 b. as molecules containing two atoms  
 c. as molecules containing four atoms  
 d. as molecules containing two atoms

5. How many electrons are shared in a double covalent bond?

a. one  
 b. two  
 c. four  
 d. six

6. Bond length is the distance between

a. two molecules of the same substance  
 b. the electrons in two different atoms  
 c. the electrons of two different atoms  
 d. the nuclei of two different atoms

7. What is the following relationship referring to bond length is generally correct?

a. the shorter the bond, the stronger the bond  
 b. the shorter the bond, the weaker the bond  
 c. the shorter the bond, the fewer the electrons in it  
 d. the shorter the bond, the larger the bond length

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## 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.

Table 1. Binary molecular compounds are generally composed of a metal and a nonmetal.

Table 2. The second element in the formula of a binary compound is named using the suffix -ide.

Table 3. The prefix from indicates how many atoms.

Table 4. The prefix from indicates how many atoms.

True \_\_\_\_\_ 1. In naming the first element in a formula, the prefix comes in last and

True \_\_\_\_\_ 2. For binary acids, the hydrogen part of the compound is named using the prefix hydro-.

Table 5. 1. An element contains only two elements.

Table 6. 1. If the name of the element in a binary acid is on the end of the name, remove the suffix -ide.

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

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

**Column A**

1.	H <sub>2</sub> O
2.	H <sub>2</sub> O <sub>2</sub>
3.	Na <sub>2</sub> O
4.	Na <sub>2</sub> O <sub>2</sub>
5.	NaOH

**Column B**

a. hydride acid
b. diatomic molecule
c. carbon monoxide
d. nitrate acid
e. ammonia
f. sulfuric acid
g. water acid
h. basic acid
i. carbon dioxide

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**Column A**

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2.	H <sub>2</sub> O <sub>2</sub>
3.	Na <sub>2</sub> O
4.	Na <sub>2</sub> O <sub>2</sub>
5.	NaOH

**Column B**

a. hydride acid
b. diatomic molecule
c. carbon monoxide
d. nitrate acid
e. ammonia
f. sulfuric acid
g. water acid
h. basic acid
i. carbon dioxide

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## Chapter 8 Study Guide For Content Mastery

**Rebecca McBride DiLiddo, Randy Moore**

## **Chapter 8 Study Guide For Content Mastery:**

*Mosby's Massage Therapy Review - E-Book* Sandy Fritz, 2014-02-01 Written by massage therapy expert Sandy Fritz this unique review resource prepares you for all of your massage therapy exams both routine semester exams and tests administered for licensure such as the National Certification Exam and the MBLEx This comprehensive review features updated content and questions based on the currently administered licensing exams Plus a companion Evolve website comes loaded with 8 practice exams and a variety of review activities such as labeling exercises crossword puzzles electronic coloring book games and much more And for studying on the go Mosby offers a new mobile app featuring 125 test questions No other massage review on the market gives you such complete exam preparation Full color format with 347 illustrations showing various massage techniques as well as anatomy physiology presents information in a more visual engaging way and helps you retain information better than reviewing text alone Over 1300 practice questions in the text provide the opportunity to assess your readiness for exams Over 40 labeling exercises are available throughout the book to help kinesthetic learners retain information Logical text organization presents review content with illustrations and examples followed by review questions and exams to help you hone test taking skills as you master facts learn how to apply them complete practice questions by topic and then work through a realistic exam experience Written to be versatile so it can be used to prepare for licensing exams as well as classroom exams allows you to prepare for massage licensure exams as well as your regular course load along the way Answer key printed in the back of the text with rationales provides you additional feedback so you can better understand why answers are correct or incorrect Esteemed author Sandy Fritz delivers quality content that students and instructors know they can rely on NEW Updated content and questions based on the changes to licensing exams delivers the most up to date relevant questions ensuring you'll be fully prepared to pass the current exams NEW Companion website offers 8 practice exams numerous review activities such as labeling exercises crossword puzzles Body Spectrum electronic coloring book online flashcards med term games animations and more NEW Mobile app with practice test questions offers increased flexibility to study on the go and in shorter intervals

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web dec 13 2010 magnetic declination also called variation is the difference between true north and magnetic north it is either east or west east declination is considered positive and west is negative charts or maps define the

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web 1 by convention declination is positive when magnetic north is east of true north and negative when it is to the west isogonic lines are lines on the earth s surface along which the declination has the same constant value and lines along which the declination is zero are called agonic lines

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web for a magnetic compass the needle will point towards magnetic north rather than true north depending on where you are on the earth s surface this difference may be as much as 30 variation may be to east or west of true north again

depending on where you are on the earth's surface variation also changes as time progresses as the magnetic

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web dec 14 2022 here a magnetic reading of 051 is to be converted to true using a variation of 2° E variation is east so M will be least or less than T by 2° T must be 053 in this example variation is unknown the boat may be on a course of 357° true and a hand held compass reads 001° magnetic the difference between T and M is 4° and M is

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web as variation is directional the rhymes variation east magnetic least and variation west magnetic best can be used as a memory aid to ensure variation is applied correctly navigation variation is an important component when

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web when magnetic north M is west of the true north variation V is west fig 9.5 as it is the case in eastern Canada the magnetic course MC of the boat can be calculated from its true course TC measured on the chart by applying the formula  $MC = TC + V$  fig 9.5 i.e. magnetic course true course plus the variation west

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