

CHAPTER 8

STUDY GUIDE

Covalent Bonding

Section 8.1 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 of electrons occurs, the attachment between atoms that results is called a(n) **(1)** _____. When such an attachment is formed, bond dissociation energy is released, and the process is **(2)** _____. When two or more atoms bond by means of electron sharing, the resulting particle is called a(n) **(3)** _____. If the electrons shared are centered between the two atoms, the attachment is called a(n) **(4)** _____. If the sharing involves the overlap of parallel orbitals, the attachment is called a(n) **(5)** _____.

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

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

6. In what form do elements such as hydrogen, nitrogen, and oxygen normally occur?
 - a. as single atoms
 - b. as molecules containing two atoms
 - c. as molecules containing three atoms
 - d. as molecules containing four atoms
7. How many electrons are shared in a double covalent bond?
 - a. none
 - b. one
 - c. two
 - d. four
8. Bond length is the distance between
 - a. two molecules of the same substance.
 - b. the electrons in two attached atoms.
 - c. the nuclei of two attached atoms.
 - d. the orbitals of two attached atoms.
9. Which of the following relationships relating 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 lower the bond dissociation energy

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Table of Contents Guided Reading And Studyguide Workbook 8 1 Covalent Bonding

1. Understanding the eBook Guided Reading And Studyguide Workbook 8 1 Covalent Bonding
 - The Rise of Digital Reading Guided Reading And Studyguide Workbook 8 1 Covalent Bonding
 - Advantages of eBooks Over Traditional Books
2. Identifying Guided Reading And Studyguide Workbook 8 1 Covalent Bonding
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Guided Reading And Studyguide Workbook 8 1 Covalent Bonding
 - User-Friendly Interface
4. Exploring eBook Recommendations from Guided Reading And Studyguide Workbook 8 1 Covalent Bonding
 - Personalized Recommendations
 - Guided Reading And Studyguide Workbook 8 1 Covalent Bonding User Reviews and Ratings
 - Guided Reading And Studyguide Workbook 8 1 Covalent Bonding and Bestseller Lists
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 - Guided Reading And Studyguide Workbook 8 1 Covalent Bonding Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Guided Reading And Studyguide Workbook 8 1 Covalent Bonding
 - Highlighting and Note-Taking Guided Reading And Studyguide Workbook 8 1 Covalent Bonding
 - Interactive Elements Guided Reading And Studyguide Workbook 8 1 Covalent Bonding
- 8. Staying Engaged with Guided Reading And Studyguide Workbook 8 1 Covalent Bonding
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Guided Reading And Studyguide Workbook 8 1 Covalent Bonding
- 9. Balancing eBooks and Physical Books Guided Reading And Studyguide Workbook 8 1 Covalent Bonding
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Guided Reading And Studyguide Workbook 8 1 Covalent Bonding
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Guided Reading And Studyguide Workbook 8 1 Covalent Bonding
 - Setting Reading Goals Guided Reading And Studyguide Workbook 8 1 Covalent Bonding
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Guided Reading And Studyguide Workbook 8 1 Covalent Bonding
 - Fact-Checking eBook Content of Guided Reading And Studyguide Workbook 8 1 Covalent Bonding
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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