

COVALENT BONDING

Name _____

Covalent bonding occurs when two or more nonmetals share electrons, attempting to attain a stable octet of electrons at least part of the time. For example:

*H wants 2 electrons
all other atoms 8*



Note that hydrogen is content with 2, not 8, electrons.

electrons in the middle share

Show how covalent bonding occurs in each of the following pairs of atoms. Atoms may share one, two or three pairs of electrons.

wanted available share

1. $\text{H} + \text{H} (\text{H}_2)$ W - 4 A - 2 S - 2	<i>wanted 2 + 2</i> <i>available</i> $\text{H} \cdot \cdot \text{H}$ $\text{H} \cdot \quad \cdot \text{H}$	$\text{H} - \text{H}$ <i>single bond = share 2 e⁻</i>
2. $\text{F} + \text{F} (\text{F}_2)$ W - 8 + 8 = 16 A - 7 + 7 = 14 S - 2	$\cdot \ddot{\text{F}} \cdot \cdot \ddot{\text{F}} \cdot$ <i>2 e⁻</i>	$\cdot \ddot{\text{F}} - \ddot{\text{F}} \cdot$ <i>single bond 2 e⁻</i>
3. $\text{O} + \text{O} (\text{O}_2)$ W - 8 + 8 = 16 A - 6 + 6 = 12 S - 4	$\cdot \ddot{\text{O}} \cdot \cdot \ddot{\text{O}} \cdot$ <i>4 e⁻</i>	$\cdot \ddot{\text{O}} = \ddot{\text{O}} \cdot$ <i>4 double bond</i>
4. $\text{N} + \text{N} (\text{N}_2)$ W - 8 + 8 = 16 A - 5 + 5 = 10 S - 6	$\cdot \ddot{\text{N}} \cdot \cdot \ddot{\text{N}} \cdot$	$\cdot \ddot{\text{N}} \equiv \ddot{\text{N}} \cdot$
5. $\text{C} + \text{O} (\text{CO}_2)$ W - 8 + 8 + 8 = 24 A - 4 + 6 + 6 = 16 S - 8	$\cdot \ddot{\text{O}} \cdot \cdot \ddot{\text{C}} \cdot \cdot \ddot{\text{O}} \cdot$	$\cdot \ddot{\text{O}} = \text{C} = \ddot{\text{O}} \cdot$
6. $\text{H} + \text{O} (\text{H}_2\text{O})$ W - 2 + 2 + 8 = 12 A - 1 + 1 + 6 = 8 S - 4	$\text{H} \cdot \cdot \ddot{\text{O}} \cdot \cdot \text{H}$	$\text{H} - \ddot{\text{O}} - \text{H}$

Answer Key For Bonding Ionic And Covalent Read

M Mark



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Table of Contents Answer Key For Bonding Ionic And Covalent Read

1. Understanding the eBook Answer Key For Bonding Ionic And Covalent Read
 - The Rise of Digital Reading Answer Key For Bonding Ionic And Covalent Read
 - Advantages of eBooks Over Traditional Books
2. Identifying Answer Key For Bonding Ionic And Covalent Read
 - 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 Answer Key For Bonding Ionic And Covalent Read
 - User-Friendly Interface
4. Exploring eBook Recommendations from Answer Key For Bonding Ionic And Covalent Read
 - Personalized Recommendations
 - Answer Key For Bonding Ionic And Covalent Read User Reviews and Ratings
 - Answer Key For Bonding Ionic And Covalent Read and Bestseller Lists

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 - Answer Key For Bonding Ionic And Covalent Read eBook Subscription Services
 - Answer Key For Bonding Ionic And Covalent Read Budget-Friendly Options
6. Navigating Answer Key For Bonding Ionic And Covalent Read eBook Formats
 - ePub, PDF, MOBI, and More
 - Answer Key For Bonding Ionic And Covalent Read Compatibility with Devices
 - Answer Key For Bonding Ionic And Covalent Read Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Answer Key For Bonding Ionic And Covalent Read
 - Highlighting and Note-Taking Answer Key For Bonding Ionic And Covalent Read
 - Interactive Elements Answer Key For Bonding Ionic And Covalent Read
8. Staying Engaged with Answer Key For Bonding Ionic And Covalent Read
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Answer Key For Bonding Ionic And Covalent Read
9. Balancing eBooks and Physical Books Answer Key For Bonding Ionic And Covalent Read
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Answer Key For Bonding Ionic And Covalent Read
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Answer Key For Bonding Ionic And Covalent Read
 - Setting Reading Goals Answer Key For Bonding Ionic And Covalent Read
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Answer Key For Bonding Ionic And Covalent Read
 - Fact-Checking eBook Content of Answer Key For Bonding Ionic And Covalent Read
 - 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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