

## DRAWING COVALENT BONDS

### Introduction:

A **covalent bond** forms between **nonmetals**. Covalent bonds involve **sharing pairs of electrons** between two atoms so that each atom gains a full outer valence shell. Sharing 1 pair of electrons creates a **single covalent bond**, sharing 2 pairs of electrons creates a **double covalent bond**, and sharing 3 pairs of electrons creates a **triple covalent bond**.



How to Draw Simple Covalent Bond Diagrams	
1.	<b>Draw the electron dot diagrams for each element.</b> <i>HINT: This will help you see the number of unpaired valence electrons for each element.</i>
2.	<b>Count the total number of valence electrons between all atoms.</b> <i>HINT: The total number of valence electrons should be 8 in most cases, except 2 hydrogens. If there are not 8, add more atoms of the element with the least number of valence electrons to start.</i>
3.	<b>Determine which element is the central atom in the molecule, if needed.</b> <i>HINT: The central atom is typically the atom with the largest valence number or the atom that there is only one of in the formula. If there are only 2 atoms in the formula, there is no central atom!</i>
4.	<b>Pair up single electrons from different atoms to form covalent bonds and circle each pair.</b> <i>HINT: Keep doing this until each single electron from all atoms have been paired up. You may need to use double or triple bonds to make this work. This step takes trial and error. If one arrangement is not working, try adding another element or trying a new structure. Practice makes perfect!</i>

### Activity: Drawing Covalent Bond Diagrams:

- For each covalent compound, you have been given the element names and the chemical formula.
- Follow the steps listed above to create a covalent bonding diagram for the compound.
- Remember, this takes trial and error. The first 2 have been done for you as examples.

#	Nonmetal	Nonmetal	Formula	Bonding Diagram
A.	hydrogen $\text{H} \cdot$ <i>(must share 1)</i>	chlorine $\cdot \ddot{\text{Cl}} \cdot$ <i>(must share 1)</i>	$\text{HCl}$ <i>(Formula shows 1 H and 1 Cl)</i>	
B.	hydrogen $\text{H} \cdot$ <i>(must share 1)</i>	oxygen $\cdot \ddot{\text{O}} \cdot$ <i>(must share 2)</i>	$\text{H}_2\text{O}$ <i>(Formula shows 2 H and 1 O)</i>	

# Covalent Bonding Workbook Answers

**Nichole Vivion**



## Covalent Bonding Workbook Answers:

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**General Chemistry Workbook** Willis Conway Pierce, Robert Nelson Smith, 1965

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1. The book is structured into several chapters, namely:

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- Chapter 2: Essential Elements of Covalent Bonding Workbook Answers
- Chapter 3: Covalent Bonding Workbook Answers in Everyday Life
- Chapter 4: Covalent Bonding Workbook Answers in Specific Contexts
- Chapter 5: Conclusion

2. In chapter 1, the author will provide an overview of Covalent Bonding Workbook Answers. This chapter will explore what Covalent Bonding Workbook Answers is, why Covalent Bonding Workbook Answers is vital, and how to effectively learn about Covalent Bonding Workbook Answers.
3. In chapter 2, the author will delve into the foundational concepts of Covalent Bonding Workbook Answers. The second chapter will elucidate the essential principles that need to be understood to grasp Covalent Bonding Workbook Answers in its entirety.
4. In chapter 3, the author will examine the practical applications of Covalent Bonding Workbook Answers in daily life. This chapter will showcase real-world examples of how Covalent Bonding Workbook Answers can be effectively utilized in everyday scenarios.
5. In chapter 4, this book will scrutinize the relevance of Covalent Bonding Workbook Answers in specific contexts. This chapter will explore how Covalent Bonding Workbook Answers is applied in specialized fields, such as education, business, and technology.
6. In chapter 5, the author will draw a conclusion about Covalent Bonding Workbook Answers. The final chapter will summarize the key points that have been discussed throughout the book.

The book is crafted in an easy-to-understand language and is complemented by engaging illustrations. It is highly recommended for anyone seeking to gain a comprehensive understanding of Covalent Bonding Workbook Answers.

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## **Table of Contents Covalent Bonding Workbook Answers**

1. Understanding the eBook Covalent Bonding Workbook Answers
  - The Rise of Digital Reading Covalent Bonding Workbook Answers
  - Advantages of eBooks Over Traditional Books
2. Identifying Covalent Bonding Workbook Answers
  - 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 Covalent Bonding Workbook Answers
  - User-Friendly Interface
4. Exploring eBook Recommendations from Covalent Bonding Workbook Answers
  - Personalized Recommendations
  - Covalent Bonding Workbook Answers User Reviews and Ratings
  - Covalent Bonding Workbook Answers and Bestseller Lists
5. Accessing Covalent Bonding Workbook Answers Free and Paid eBooks
  - Covalent Bonding Workbook Answers Public Domain eBooks
  - Covalent Bonding Workbook Answers eBook Subscription Services
  - Covalent Bonding Workbook Answers Budget-Friendly Options
6. Navigating Covalent Bonding Workbook Answers eBook Formats
  - ePub, PDF, MOBI, and More
  - Covalent Bonding Workbook Answers Compatibility with Devices
  - Covalent Bonding Workbook Answers Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Covalent Bonding Workbook Answers
  - Highlighting and Note-Taking Covalent Bonding Workbook Answers
  - Interactive Elements Covalent Bonding Workbook Answers



8. Staying Engaged with Covalent Bonding Workbook Answers
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Covalent Bonding Workbook Answers
9. Balancing eBooks and Physical Books Covalent Bonding Workbook Answers
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Covalent Bonding Workbook Answers
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Covalent Bonding Workbook Answers
  - Setting Reading Goals Covalent Bonding Workbook Answers
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Covalent Bonding Workbook Answers
  - Fact-Checking eBook Content of Covalent Bonding Workbook Answers
  - 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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