

Name: Answer Key Date: _____ Per.: _____

Covalent Bond Practice

1. Fill in the missing information on the chart.

Element	# of Protons	# of Electrons	# of Valence Electrons	# of electrons to fill outer shell.
Carbon	6	6	4	4
Hydrogen	1	1	1	1
Chlorine	17	17	7	1
Helium	2	2	2	0
Phosphorus	15	15	5	3
Oxygen	8	8	6	2
Sulfur	16	16	6	2
Nitrogen	7	7	5	3

2. For each of the following covalent bonds:

- Write the symbols for each element.
- Draw a Lewis Dot structure for the valence shell of each element.
- Rearrange the electrons to pair up electrons from each atom.
- Draw circles to show the sharing of electrons between each pair of atoms.
- Draw the bond structure using chemical symbols and lines. Use one line for each pair of electrons that is shared.
- Write the chemical formula for each molecule.

a) Hydrogen + Hydrogen



b) Chlorine + Chlorine



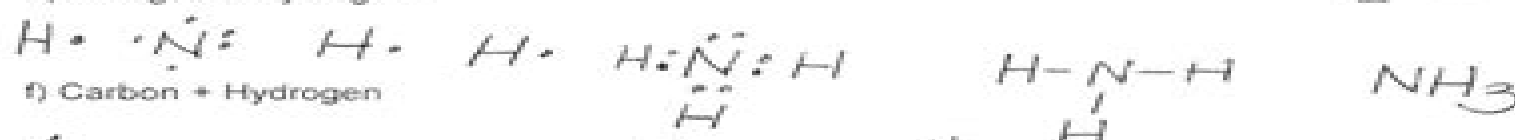
c) Hydrogen + Chlorine



d) Hydrogen + Oxygen



e) Nitrogen + Hydrogen



f) Carbon + Hydrogen



Covalent Bond Concept Review Answer Key

Arshad Iqbal



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Table of Contents Covalent Bond Concept Review Answer Key

1. Understanding the eBook Covalent Bond Concept Review Answer Key
 - The Rise of Digital Reading Covalent Bond Concept Review Answer Key
 - Advantages of eBooks Over Traditional Books
2. Identifying Covalent Bond Concept Review Answer Key
 - 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 Bond Concept Review Answer Key
 - User-Friendly Interface

4. Exploring eBook Recommendations from Covalent Bond Concept Review Answer Key
 - Personalized Recommendations
 - Covalent Bond Concept Review Answer Key User Reviews and Ratings
 - Covalent Bond Concept Review Answer Key and Bestseller Lists
5. Accessing Covalent Bond Concept Review Answer Key Free and Paid eBooks
 - Covalent Bond Concept Review Answer Key Public Domain eBooks
 - Covalent Bond Concept Review Answer Key eBook Subscription Services
 - Covalent Bond Concept Review Answer Key Budget-Friendly Options
6. Navigating Covalent Bond Concept Review Answer Key eBook Formats
 - ePub, PDF, MOBI, and More
 - Covalent Bond Concept Review Answer Key Compatibility with Devices
 - Covalent Bond Concept Review Answer Key Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Covalent Bond Concept Review Answer Key
 - Highlighting and Note-Taking Covalent Bond Concept Review Answer Key
 - Interactive Elements Covalent Bond Concept Review Answer Key
8. Staying Engaged with Covalent Bond Concept Review Answer Key
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Covalent Bond Concept Review Answer Key
9. Balancing eBooks and Physical Books Covalent Bond Concept Review Answer Key
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Covalent Bond Concept Review Answer Key
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Covalent Bond Concept Review Answer Key
 - Setting Reading Goals Covalent Bond Concept Review Answer Key
 - Carving Out Dedicated Reading Time

12. Sourcing Reliable Information of Covalent Bond Concept Review Answer Key
 - Fact-Checking eBook Content of Covalent Bond Concept Review Answer Key
 - 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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