

# 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*

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

# Covalent Bonding Chemistry Packet Answers

**Sundar Nathan**



## Covalent Bonding Chemistry Packet Answers:

AP Biology Study Guide Sundar Nathan, 2009-11 Sundar Nathan received a Bachelor's degree in Electrical Engineering from Anna University Chennai India and a Masters degree in Biomedical Engineering from the University of Texas at Austin Working for over a year with a team of talented Phds MPhils and MScs from all over the world Sundar compiled this comprehensive study guide to help students prepare diligently understand the concepts and Crush the AP Bio Test A Level Chemistry Questions and Answers PDF Arshad Iqbal, The A Level Chemistry Quiz Questions and Answers PDF IGCSE GCE Chemistry Competitive Exam Questions Chapter 1 28 Practice Tests Class 11 12 Chemistry Textbook Questions for Beginners includes revision guide for problem solving with hundreds of solved questions A Level Chemistry Questions and Answers PDF book covers basic concepts analytical and practical assessment tests A Level Chemistry Quiz PDF book helps to practice test questions from exam prep notes The A Level Chemistry Quiz Questions and Answers PDF eBook includes revision guide with verbal quantitative and analytical past papers solved tests A Level Chemistry Questions and Answers PDF Free download chapter 1 a book covers solved common questions and answers on chapters Alcohols and esters atomic structure and theory benzene chemical compound carbonyl compounds carboxylic acids acyl compounds chemical bonding chemistry of life electrode potential electrons in atoms enthalpy change equilibrium group IV groups II and VII halogenoalkanes hydrocarbons introduction to organic chemistry ionic equilibria lattice energy moles and equations nitrogen and sulfur organic and nitrogen compounds periodicity polymerization rates of reaction reaction kinetics redox reactions and electrolysis states of matter transition elements tests for college and university revision guide Chemistry Interview Questions and Answers PDF Download free eBook's sample covers beginner's solved questions textbook's study notes to practice online tests The IGCSE GCE Chemistry Interview Questions Chapter 1 28 PDF book includes high school question papers to review practice tests for exams A Level Chemistry Practice Tests a textbook's revision guide with chapters tests for IGCSE NEET MCAT GRE GMAT SAT ACT competitive exam A Level Chemistry Questions Bank Chapter 1 28 PDF book covers problem solving exam tests from chemistry textbook and practical eBook chapter wise as Chapter 1 Alcohols and Esters Questions Chapter 2 Atomic Structure and Theory Questions Chapter 3 Benzene Chemical Compound Questions Chapter 4 Carbonyl Compounds Questions Chapter 5 Carboxylic Acids and Acyl Compounds Questions Chapter 6 Chemical Bonding Questions Chapter 7 Chemistry of Life Questions Chapter 8 Electrode Potential Questions Chapter 9 Electrons in Atoms Questions Chapter 10 Enthalpy Change Questions Chapter 11 Equilibrium Questions Chapter 12 Group IV Questions Chapter 13 Groups II and VII Questions Chapter 14 Halogenoalkanes Questions Chapter 15 Hydrocarbons Questions Chapter 16 Introduction to Organic Chemistry Questions Chapter 17 Ionic Equilibria Questions Chapter 18 Lattice Energy Questions Chapter 19 Moles and Equations Questions Chapter 20 Nitrogen and Sulfur Questions Chapter 21 Organic and Nitrogen Compounds Questions Chapter 22 Periodicity Questions Chapter 23 Polymerization Questions Chapter 24 Rates of Reaction

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**Study Guide, Answer Book to Accompany Organic Chemistry** Alan S. Wingrove, Robert L. Caret, 1981

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## Covalent Bonding Chemistry Packet Answers Book Review: Unveiling the Magic of Language

In a digital era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its power to stir emotions, provoke thought, and instigate transformation is actually remarkable. This extraordinary book, aptly titled "**Covalent Bonding Chemistry Packet Answers**," compiled by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound impact on our existence. Throughout this critique, we shall delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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