

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

Covalent Bonding Practice Problems Answers

Paul B. Kelter



Covalent Bonding Practice Problems Answers:

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Ebbing,1993 **Jacaranda Chemistry 1 VCE Units 1 and 2, learnON and Print** Neale Taylor,Angela Stubbs,Robert Stokes,2022-11-30 Developed by expert Victorian teachers for VCE students The NEW Jacaranda Chemistry VCE series continues to deliver curriculum aligned material that caters to students of all abilities Our expert author team of practising teachers and assessors ensures 100% coverage of the new VCE Chemistry Study Design 2023 2027 Understanding Chemistry Fred M. Dewey,1994 **Student Study Guide and Solutions Manual to accompany General Organic and Biological Chemistry, 1e** Kenneth W. Raymond,2005-10-07 Finally readers have a shorter less intimidating introduction to general organic and biological chemistry Not only is Raymond s text concise it also takes an integrated approach to presenting important topics in a way that makes the material easier to understand In this approach similarities can be exploited and concepts reinforced The result is that readers see the strong connections that exist between these three branches of chemistry **Problem Exercises for General Chemistry** George Gilbert Long,Forrest C. Hentz,1982

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