

# 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><i>(S = 4)</i></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><i>S = 6</i></p>	<p><math>\cdot \text{N} \cdot \cdot \cdot \text{N} \cdot</math></p>	<p><math>\cdot \text{N} \equiv \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><i>S = 8</i></p>	<p><math>\cdot \ddot{\text{O}} \cdot \cdot \cdot \text{C} \cdot \cdot \cdot \ddot{\text{O}} \cdot</math></p>	<p><math>\ddot{\text{O}} = \text{C} = \ddot{\text{O}}</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><i>S = 4</i></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>

# Answer Key To Explore Learning Gizmo Covalent Bonding

**L Darling-Hammond**



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