

# 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 Gizmo Worksheet Answer Key

**Minjie Lin**



## **Covalent Bonding Gizmo Worksheet Answer Key:**

## The Enigmatic Realm of **Covalent Bonding Gizmo Worksheet Answer Key**: Unleashing the Language is Inner Magic

In a fast-paced digital era where connections and knowledge intertwine, the enigmatic realm of language reveals its inherent magic. Its capacity to stir emotions, ignite contemplation, and catalyze profound transformations is nothing lacking extraordinary. Within the captivating pages of **Covalent Bonding Gizmo Worksheet Answer Key** a literary masterpiece penned by a renowned author, readers attempt a transformative journey, unlocking the secrets and untapped potential embedded within each word. In this evaluation, we shall explore the book's core themes, assess its distinct writing style, and delve into its lasting effect on the hearts and minds of people who partake in its reading experience.

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