

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

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

Answer Key For Bonding Ionic And Covalent Read

O.P. Gupta



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, *Reading and Writing in Science* Maria C. Grant, Douglas Fisher, 2010 Written by a science educator and a literacy expert this resource gives secondary science teachers an approach for developing students disciplinary literacy so they can access science content

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The book delves into Answer Key For Bonding Ionic And Covalent Read. Answer Key For Bonding Ionic And Covalent Read is an essential topic that must be grasped by everyone, from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Answer Key For Bonding Ionic And Covalent Read, encompassing both the fundamentals and more intricate discussions.

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- Chapter 2: Essential Elements of Answer Key For Bonding Ionic And Covalent Read
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- Chapter 4: Answer Key For Bonding Ionic And Covalent Read in Specific Contexts
- Chapter 5: Conclusion

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5. In chapter 4, this book will scrutinize the relevance of Answer Key For Bonding Ionic And Covalent Read in specific contexts. The fourth chapter will explore how Answer Key For Bonding Ionic And Covalent Read is applied in specialized fields, such as education, business, and technology.
6. In chapter 5, this book will draw a conclusion about Answer Key For Bonding Ionic And Covalent Read. The final chapter will summarize the key points that have been discussed throughout the book.
- This book is crafted in an easy-to-understand language and is complemented by engaging illustrations. This book is highly recommended for anyone seeking to gain a comprehensive understanding of Answer Key For Bonding Ionic And Covalent Read.

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