

Name: _____

Sci # _____

COVALENT BOND WEBQUEST

DIRECTIONS: Answer the following by going to the notes website. You can go to Mrs. Slowiak's website and use the links or type in the addresses for each section if needed.

Activity #1- Introduction to Covalent Bonding

Open [Chemical Bonding](http://www.visionlearning.com/library/module_viewer.php?mid=55). Scroll down to the heading "Covalent Bonding." OR (http://www.visionlearning.com/library/module_viewer.php?mid=55)

1. As opposed to _____ bonding in which a complete transfer of electrons occur, _____ bonding occurs when two or more elements _____ electrons. Covalent bonding occurs because the atoms in the compound have a similar tendency for electrons (generally to _____ electrons). This most commonly occurs when two _____ bond together. Because both of the nonmetals will want to _____ electrons, the elements involved will share electrons in an effort to _____ their valence shells.

2. How many valence electrons are in one atom of hydrogen?

3. How many valence electrons does hydrogen need to have a full first shell?

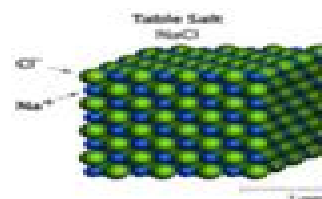
4. How does the hydrogen atom "pick up" another electron?

5. What compound does hydrogen form?

6. How do hydrogen atoms make a covalent bond?

7. Visit the simulation, [Covalent bonding between hydrogen atoms](http://www.visionlearning.com/library/flash_viewer.php?oid=1348&mid=55). OR (http://www.visionlearning.com/library/flash_viewer.php?oid=1348&mid=55) Describe or draw what you see.

8. Label the substances below as "ionic" or "covalent".



Answer Sheet To Overview Chemical Bonds

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Answer Sheet To Overview Chemical Bonds:

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Table of Contents Answer Sheet To Overview Chemical Bonds

1. Understanding the eBook Answer Sheet To Overview Chemical Bonds
 - The Rise of Digital Reading Answer Sheet To Overview Chemical Bonds
 - Advantages of eBooks Over Traditional Books
2. Identifying Answer Sheet To Overview Chemical Bonds
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Answer Sheet To Overview Chemical Bonds
 - User-Friendly Interface
4. Exploring eBook Recommendations from Answer Sheet To Overview Chemical Bonds
 - Personalized Recommendations
 - Answer Sheet To Overview Chemical Bonds User Reviews and Ratings
 - Answer Sheet To Overview Chemical Bonds and Bestseller Lists

5. Accessing Answer Sheet To Overview Chemical Bonds Free and Paid eBooks
 - Answer Sheet To Overview Chemical Bonds Public Domain eBooks
 - Answer Sheet To Overview Chemical Bonds eBook Subscription Services
 - Answer Sheet To Overview Chemical Bonds Budget-Friendly Options
6. Navigating Answer Sheet To Overview Chemical Bonds eBook Formats
 - ePub, PDF, MOBI, and More
 - Answer Sheet To Overview Chemical Bonds Compatibility with Devices
 - Answer Sheet To Overview Chemical Bonds Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Answer Sheet To Overview Chemical Bonds
 - Highlighting and Note-Taking Answer Sheet To Overview Chemical Bonds
 - Interactive Elements Answer Sheet To Overview Chemical Bonds
8. Staying Engaged with Answer Sheet To Overview Chemical Bonds
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Answer Sheet To Overview Chemical Bonds
9. Balancing eBooks and Physical Books Answer Sheet To Overview Chemical Bonds
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Answer Sheet To Overview Chemical Bonds
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Answer Sheet To Overview Chemical Bonds
 - Setting Reading Goals Answer Sheet To Overview Chemical Bonds
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Answer Sheet To Overview Chemical Bonds
 - Fact-Checking eBook Content of Answer Sheet To Overview Chemical Bonds
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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