

Name: _____

Sci # _____

COVALENT BOND WEBQUEST

DIRECTIONS: Answer the following by going to the notes website. You can go to Mrs. Slowik'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](#). 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?

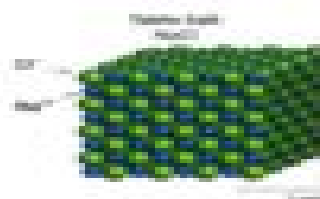
4. How does the hydrogen atom "pick up" another electron?

5. What compound does hydrogen form?

6. How do hydrogen atoms make a covalent bond?

7. Visit the simulation, [Covalent bonding between hydrogen atoms](#). OR
http://www.visionlearning.com/library/flash_viewer.php?fid=1346&mid=55
Describe or draw what you see.

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



Covalent Bonding Webquest Answers

M.S. Sethi & M. Satake



Covalent Bonding Webquest Answers:

The Covalent Bond Henry Sinclair Pickering, 1977

Covalent Bond 35 Success Secrets - 35 Most Asked

Questions on Covalent Bond - What You Need to Know Shirley Soto, 2014-10-14 A Blue Ribbon Covalent bond Guide A covalent bond is a biochemical bond that includes the parting of negatron matches amid particles The steady level of alluring and hideous drives amid particles once they share electrons is recognized like covalent joining For numerous particles the parting of electrons permits every one particle to attain the equal of a complete outside shell comparable to a steady microelectronic arrangement There has never been a Covalent bond Guide like this It contains 35 answers much more than you can imagine comprehensive answers and extensive details and references with insights that have never before been offered in print Get the information you need fast This all embracing guide offers a thorough view of key knowledge and detailed insight This Guide introduces what you want to know about Covalent bond A quick look inside of some of the subjects covered Chemical bonding Covalent bond Noncovalent bonding Drug Design Covalent bond History Noncovalent bonding Cation Anion Noncovalent bonding Hydrophobic effect Polar covalent bond Polarity of bonds Noncovalent bonding Boiling Points of Liquids Noncovalent bonding London Dispersion Forces Coordinate Covalent Bond Examples Noncovalent bonding effects Noncovalent bonding H bonding Noncovalent bonding Polar Polar covalent bond Polar molecules Covalent bonds Polarity of covalent bonds Polar covalent bond Polarity of molecules Noncovalent bonding Interaction Noncovalent bonding Van der Waals Forces Covalent bonds Subdivision of covalent bonds Covalent Bond Classification Polar covalent bond Hybrids Noncovalent bonding Electrostatic Interactions Polar covalent bond Nonpolar molecules Covalent Bond Classification Other uses Covalent bonds History Noncovalent bonding Dipole Dipole Noncovalent bonding Protein Folding Structure and much more [Atoms & Chemical Bonding Science Learning Guide](#) NewPath Learning, 2014-03-01 The Atoms Atomic Configuration Chemical Bonding Ionic Bonding Ionic Compounds Covalent Bonding Covalent Compounds Naming Compounds and Metallic Bonding Aligned to Next Generation Science Standards NGSS and other state standards

Covalent Bonding in Crystals, Molecules, and Polymers James C. Phillips, 1969

Chemistry of the Covalent

Bond Leallyn Burr Clapp, 1957

Covalent Bonding, 2006

Chemical Bonding Kok Koon Leong, 2021-05-03 This book

introduces the principles behind chemical bonding to teenagers between the ages of fifteen to seventeen Topics covered include ionic bonding covalent bonding and metallic bonding **Polar Covalence** R Sanderson, 2012-12-02 Polar Covalence provides a detailed account of a successful approach to understanding chemistry from knowledge of atomic structure and the properties that result from this structure This book discusses the nature of multiple bonds Organized into 16 chapters this book begins with an overview of the interrelationships of various basic atomic properties This text then describes chemical bonding which can only occur when the nuclei of both atoms can attract the same electrons Other chapters consider the bond energy of multiple bonds which can be determined by calculating the energy in the usual way as though the bonds were

single but of the experimental length This book discusses as well the reduction of the lone pair bond weakening effect through the formation of multiple bonds The final chapter deals with the relative roles of principles and practice in the teaching of inorganic and general chemistry This book is a valuable resource for chemists and students **Covalent Bonds**

| Characteristics of Covalent Bonds and Properties of Covalent Compounds | Grade 6-8 Physical Science Dot EDU,2024-04-15 Dive into the world of chemistry with this essential guide which is perfect for middle schoolers It unravels the complexities of covalent bonds where atoms share electrons to create molecules and how these interactions form diverse substances Ideal for educators homeschooling parents and school librarians this book emphasizes the significance of understanding chemical bonds within the US STEM curriculum Explore covalent compounds fascinating properties and characteristics through engaging explanations and examples This opportunity will enrich your science lessons and encourage a more profound interest in Chemistry Teaching Chemical Bonding Margaret Irene Lindsay,1995 This document presents an instructional strategy for teaching chemical bonding using parables and music Games student interactions and worksheets are included in the lesson plans Topics include metallic bonding covalent bonding including molecular and network structure and ionic bonding JRH **Ionic and Covalent Bonding** James M. Postma,Julian Roberts,J. Leland Hollenberg,2000-01-15

Chemical Binding and Structure J. E. Spice,2016-01-22 Chemical Binding and Structure describes the chemical binding and structure in terms of current chemical theory This book is composed of 13 chapters and starts with a presentation of the principles of the old and modified quantum theory and its application The next chapters cover some basic topics related to chemical binding and structure including electrons the periodic table the electrovalent and covalent bonds and molecular geometry These topics are followed by discussions on the nature of the bond in transition metal complexes electronic and crystal structure crystallinity and other states of matter The concluding chapters are devoted to some analytical techniques for structure determination such as diffraction and spectroscopic methods This book is of value to high school and college chemistry teachers and students **Chemical Bonding** M.S. Sethi & M. Satake,2010 Contents Chemical Bonding I Basic Concepts Chemical Bonding II Additional Aspects Intermolecular Force and Crystal Structures

Structure and Bonding Jack Barrett,2001 This book explains in non mathematical terms where possible the factors that govern covalent bond formation the lengths and strengths of bonds and molecular shapes **The Chemical Bond** Gernot Frenking,Sason Shaik,2014-06-13 A unique overview of the different kinds of chemical bonds that can be found in the periodic table from the main group elements to transition elements lanthanides and actinides It takes into account the many developments that have taken place in the field over the past few decades due to the rapid advances in quantum chemical models and faster computers This is the perfect complement to Chemical Bonding Fundamentals and Models by the same editors who are two of the top scientists working on this topic each with extensive experience and important connections within the community **Chemistry of the Covalent Bond** Lealyn B. Clapp,1950 **The Study of Covalent-Bonding**

by Means of Elastic-Constants ,1973 **Covalent Bonding in Crystals, Molecules, and Polymers [by] James C. Phillips** James Charles Phillips,1969 *The Binding Force* Daniel Berg,1966 *Acids, Bases, and the Chemistry of the Covalent Bond* Calvin Anthony VanderWerf,1961

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