

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?

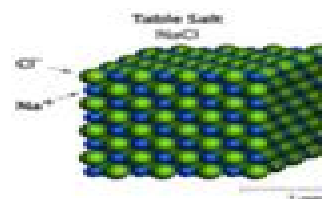
4. How does the hydrogen atom "pick up" another electron?

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

E Durkheim



Answer Sheet To Overview Chemical Bonds:

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Linus Pauling Linus Pauling,Barclay Kamb,2001 Linus Pauling wrote a stellar series of over 800 scientific papers spanning an amazing range of fields some of which he himself initiated This book is a selection of the most important of his writings in the fields of quantum mechanics

chemical bonding covalent ionic metallic and hydrogen bonding molecular rotation and entropy protein structure hemoglobin molecular disease molecular evolution the antibody mechanism the molecular basis of anesthesia orthomolecular medicine radiation chemistry biology and nuclear structure Through these papers the reader gets a fresh unfiltered view of the genius of Pauling s many contributions to chemistry chemical physics molecular biology and molecular medicine Contents The Chemical Bond Metallic Bonding Hydrogen Bonding Crystal and Molecular Structure and Properties Ionic Crystals and X Ray Diffraction Molecules in the Gas Phase and Electron Diffraction Entropy and Molecular Rotation in Crystals and Liquids and other papers Readership Chemists biochemists molecular biologists and physicists *Focus on physical science* Charles H. Heimler,1989 *Review of the Army Food Irradiation Program* United States. Congress. Joint Committee on Atomic Energy,1963 **Review and Evaluation of Alternative Chemical Disposal Technologies** National Research Council,Division on Engineering and Physical Sciences,Commission on Engineering and Technical Systems,Panel on Review and Evaluation of Alternative Chemical Disposal Technologies,1996-11-15 In 1994 the National Research Council published Recommendations for the Disposal of Chemical Agents and Munitions which assessed the status of various alternative destruction technologies in comparison to the Army s baseline incineration system The volume s main finding was that no alternative technology was preferable to incineration but that work should continue on the neutralization technologies under Army consideration In light of the fact that alternative technologies have evolved since the 1994 study this new volume evaluates five Army chosen alternatives to the baseline incineration system for the disposal of the bulk nerve and mustard agent stored in ton containers at Army sites located in Newport Indiana and Aberdeen Maryland respectively The committee assessed each technology by conducting site visits to the locations of the technology proponent companies and by meeting with state regulators and citizens of the affected areas This volume makes recommendations to the Army on which if any of the five technologies has reached a level of maturity appropriate for consideration for pilot scale testing at the two affected sites Nuclear Science Abstracts ,1975-03 **Molecules and the Chemical Bond** Henry A. Bent,2011 MOLECULES AND THE CHEMICAL BOND Chemistry Simplified This highly original book by a famous chemistry teacher about general chemistry in a new key may change how teachers teach Atomic Theory The Mole Concept and Avogadro s Constant The Gas Laws Solving Problems in Chemical Stoichiometry The Saturation and Directional Character of Chemical Affinity The Pauli Exclusion Principle Linnett s Double Spin Set Theory Pauling s Rules of Crystal Chemistry The Octet Rule Lewis Structures for O₂ NO CO SO₂ and SO₃ Construction of Bond Diagrams VSEPR Theory Dative Bonding Multicenter Bonding Bonding in Metals pH Calculations The Periodic Table The Energy Function and the First Law of Thermodynamics The Entropy Function and the Second Law of Thermodynamics How an Inductive Science Advances *Review of American Chemical Research* ,1897 **Review of American Chemical Research** William Albert Noyes,1898 Quarterly Review of Distance Education Michael Simonson,Anymir Orellana,2023-12-01 The Quarterly Review of Distance Education is a rigorously refereed journal

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INTRODUCTION TO Geochemistry This book is intended to serve as a text for an introductory course in geochemistry for undergraduate graduate students with at least an elementary level background in earth sciences chemistry and mathematics The text containing 83 tables and 181 figures covers a wide variety of topics ranging from atomic structure to chemical and isotopic equilibria to modern biogeochemical cycles which are divided into four interrelated parts Crystal Chemistry Chemical Reactions and biochemical reactions involving bacteria Isotope Geochemistry radiogenic and stable isotopes and The Earth Supersystem which includes discussions pertinent to the evolution of the solid Earth the atmosphere and the hydrosphere In keeping with the modern trend in the field of geochemistry the book emphasizes computational techniques by developing appropriate mathematical relations solving a variety of problems to illustrate application of the mathematical relations and leaving a set of questions at the end of each chapter to be solved by students However so as not to interrupt the flow of the text involved chemical concepts and mathematical derivations are separated in the form of boxes Supplementary materials are packaged into ten appendixes that include a standard state 298 15 K 1 bar thermodynamic data table and a listing of answers to selected chapter end questions

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