

Covalent Bonding Worksheet

Covalent bonding occurs when two or more NON_METALS share electrons, attempting to attain a stable octet (8 outer electrons) in their outer shell for at least part of the time. Draw a Lewis dot diagram for each element listed. Circle the unpaired electrons that will be shared between the elements.

1.) H_2 hydrogen is diatomic:



2.) F_2 fluorine is diatomic:



3.) O_2 oxygen is diatomic:



4.) N_2 nitrogen is diatomic. Is this a triple bond?



5.) BF_3 you need 3 fluorine atoms here:



6.) Ammonia NH_3 hint: how many hydrogen atoms are needed?



7.) Carbon dioxide CO_2



8.) Methane CH_4 careful here 4 hydrogen atoms needed



9.) Dihydrogen monoxide: the most dangerous substance on the planet. It has killed more people than any other substance known to mankind!!



10.) SO_2 hint: one pair of electrons from sulfur must be slit up for this one to work.



The Nature Of Covalent Bonding Worksheet Answers

Phillip Manning



The Nature Of Covalent Bonding Worksheet Answers:

The Nature of Matter Gr. 5-8 , Jacaranda Nature of Biology 2 VCE Units 3 and 4, LearnON and Print Judith Kinnear, Marjory Martin, Lucy Cassar, Elise Meehan, Ritu Tyagi, 2021-10-29 Jacaranda Nature of Biology Victoria's most trusted VCE Biology online and print resource The Jacaranda Nature of Biology series has been rewritten for the VCE Biology Study Design 2022-2026 and offers a complete and balanced learning experience that prepares students for success in their assessments by building deep understanding in both Key Knowledge and Key Science Skills Prepare students for all forms of assessment Preparing students for both the SACs and exam with access to 1000s of past VCAA exam questions now in print and learnON new teacher only and practice SACs for every Area of Study and much more Videos by experienced teachers Students can hear another voice and perspective with 100s of new videos where expert VCE Biology teachers unpack concepts VCAA exam questions and sample problems For students of all ability levels All students can understand deeply and succeed in VCE with content mapped to Key Knowledge and Key Science Skills careful scaffolding and contemporary case studies that provide a real word context eLogbook and eWorkbook Free resources to support learning eWorkbook and the increased requirement for practical investigations eLogbook which includes over 80 practical investigations with teacher advice and risk assessments For teachers learnON includes additional teacher resources such as quarantined questions and answers curriculum grids and work programs

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teaching of inorganic and general chemistry This book is a valuable resource for chemists and students *Chemical Bonds* Phillip Manning, 2009 Modern life is made up of a mind boggling array of materials A simple drinking cup for example might be made of Styrofoam paper or glass depending on the drinkers needs at the moment Home storage cabinets can be made of metal wood or plastic Space shuttles are assembled from silicon steel and hundreds of other materials All of these items owe their properties to the chemical bonds between the atoms that make up the substance Chemical Bonds examines the nature of the chemical bonds answering fundamental questions about how they form how they are broken and how they help define life as we know it *Nature of the Chemical Bond* William A. Goddard (III.), 1980 *The Covalent Bond* Henry Sinclair Pickering, 1977 *Nature of the Chemical Bond* William A. Goddard, 1986 *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

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