

DRAWING COVALENT BONDS

Introduction:

A **covalent bond** forms between **nonmetals**. Covalent bonds involve **sharing pairs of electrons** between two atoms so that each atom gains a full outer valence shell. Sharing 1 pair of electrons creates a **single covalent bond**, sharing 2 pairs of electrons creates a **double covalent bond**, and sharing 3 pairs of electrons creates a **triple covalent bond**.



How to Draw Simple Covalent Bond Diagrams	
1.	Draw the electron dot diagrams for each element. <i>HINT: This will help you see the number of unpaired valence electrons for each element.</i>
2.	Count the total number of valence electrons between all atoms. <i>HINT: The total number of valence electrons should be 8 in most cases, except 2 hydrogens. If there are not 8, add more atoms of the element with the least number of valence electrons to start.</i>
3.	Determine which element is the central atom in the molecule, if needed. <i>HINT: The central atom is typically the atom with the largest valence number or the atom that there is only one of in the formula. If there are only 2 atoms in the formula, there is no central atom!</i>
4.	Pair up single electrons from different atoms to form covalent bonds and circle each pair. <i>HINT: Keep doing this until each single electron from all atoms have been paired up. You may need to use double or triple bonds to make this work. This step takes trial and error. If one arrangement is not working, try adding another element or trying a new structure. Practice makes perfect!</i>

Activity: Drawing Covalent Bond Diagrams:

- For each covalent compound, you have been given the element names and the chemical formula.
- Follow the steps listed above to create a covalent bonding diagram for the compound.
- Remember, this takes trial and error. The first 2 have been done for you as examples.

#	Nonmetal	Nonmetal	Formula	Bonding Diagram
A.	hydrogen $\text{H} \cdot$ <i>(must share 1)</i>	chlorine $\cdot \ddot{\text{Cl}} \cdot$ <i>(must share 1)</i>	HCl <i>(Formula shows 1 H and 1 Cl)</i>	
B.	hydrogen $\text{H} \cdot$ <i>(must share 1)</i>	oxygen $\cdot \ddot{\text{O}} \cdot$ <i>(must share 2)</i>	H_2O <i>(Formula shows 2 H and 1 O)</i>	

Lesson 20 Covalent Bonds Worksheet

Ralph M. Feather



Lesson 20 Covalent Bonds Worksheet:

Science Discovery Activities Kit Frances Bartlett Barhydt, 1989 *The Teaching Delusion 2: Teaching Strikes Back* Bruce Robertson, 2021-09-24
Whisper it quietly a lot of time is being wasted in a lot of schools. Actually, why are we whispering? What we should really be doing is calling this out loudly. The job of schools is too important for us to keep quiet. Schools are in the transforming lives business. There is no time to waste. In *The Teaching Delusion*, Why Teaching In Our Schools Isn't Good Enough And How We Can Make It Better, Bruce Robertson explored delusions that are holding our schools back. In this sequel, *The Teaching Delusion 2: Teaching Strikes Back*, he digs deeper into three areas: curriculum, pedagogy, and leadership. In doing so, he tackles the issue of time-wasting head-on. By calling out specific delusions in each area, Robertson suggests strategies for dismantling these and offers a clear roadmap forward. Backed by a depth of research and a breadth of experience, *The Teaching Delusion 2: Teaching Strikes Back* will give teachers and school leaders the supportive shake-up they need, helping them to abandon practices that aren't making the difference they should be and to focus on the things that will really make the biggest difference to students in our schools. **General Chemistry Workbook** Daniel C. Tofan, 2010-07-28
This workbook is a comprehensive collection of solved exercises and problems typical to AP introductory and general chemistry courses, as well as blank worksheets containing further practice problems and questions. It contains a total of 197 learning objectives grouped in 28 lessons and covering the vast majority of the types of problems that a student will encounter in a typical one-year chemistry course. It also contains a fully solved 50-question practice test which gives students a good idea of what they might expect on an actual final exam covering the entire material. **Holt Physical** Holt, Rinehart and Winston Staff, 1994 Intro to Meteorology & Astronomy Parent Lesson Planner, 2014-09-09
Introduction to Meteorology and Astronomy Course Description: This is the suggested course sequence that allows one core area of science to be studied per semester. You can change the sequence of the semesters per the needs or interests of your student. Materials for each semester are independent of one another to allow flexibility. Semester 1: Meteorology. The Earth was created to be the dwelling place of man. It is a complex world, and its weather patterns affect our lives every day. Whether you live near the equator, a polar region, or somewhere in between, knowledge of the weather is important. The Weather Book will teach you why our exact distance from the sun allows life on earth, how the weather on the other side of the earth affects you, how clouds form, and how to identify the different types. What the difference is between a cold and warm front, why you can often see lightning long before you can hear thunder, how to build your own weather station, how to survive in dangerous weather, what the greenhouse effect and the ozone hole are, what Noah's flood and the Ice Age have in common, how weatherpersons forecast hurricanes and tornadoes, how to read a weather map, and what our responsibility is to the environment. Learning about the weather is fun. It will change the way you look at the clouds in the sky. Now you'll have more of an understanding about what is going on miles above your head. And when you hear a weather report on television, you will

understand so much more about the world around you Semester 2 Astronomy One thing we have in common with the ancients is that all of the human race has gazed at the night sky and the bright morning and wondered What's out there Our universe is so vast and awe inspiring that to learn about it is to learn about ourselves The Astronomy Book will teach you what long ago astronomers thought about other worlds solar system facts how constellations relate to astrology the history of space exploration black holes do they exist the origin and age of the moon why Mars doesn't support life the composition of stars supernova remnants and the myth of star birth asteroid legends and the extinction of the dinosaurs are there planets outside our solar system and could they be home to intelligent life what are UFOs and the age of comets and meteor showers Learning about the universe is huge fun In the almost infinite expanse above us we can examine planets galaxies and phenomena so beautiful and complex that we never outgrow a childlike wonder We see our own reflection in the moon the stars and in comet trails The more we learn the less we fear **Books in Print Supplement**, 2002 **Understanding**

and Developing Science Teachers' Pedagogical Content Knowledge J. John Loughran, Amanda Berry, Pamela Mulhall, 2006-01-01 There has been a growing interest in the notion of a scholarship of teaching Such scholarship is displayed through a teacher's grasp of and response to the relationships between knowledge of content teaching and learning in ways that attest to practice as being complex and interwoven Yet attempting to capture teachers' professional knowledge is difficult because the critical links between practice and knowledge for many teachers is tacit Pedagogical Content Knowledge PCK offers one way of capturing articulating and portraying an aspect of the scholarship of teaching and in this case the scholarship of science teaching The research underpinning the approach developed by Loughran Berry and Mulhall offers access to the development of the professional knowledge of science teaching in a form that offers new ways of sharing and disseminating this knowledge Through this Resource Folio approach comprising CoRe and PaP eRs a recognition of the value of the specialist knowledge and skills of science teaching is not only highlighted but also enhanced The CoRe and PaP eRs methodology offers an exciting new way of capturing and portraying science teachers' pedagogical content knowledge so that it might be better understood and valued within the profession This book is a concrete example of the nature of scholarship in science teaching that is meaningful useful and immediately applicable in the work of all science teachers preservice in service and science teacher educators It is an excellent resource for science teachers as well as a guiding text for teacher education Understanding and Developing Science Teachers' Pedagogical Content Knowledge John Loughran, Amanda Berry, Pamela Mulhall, 2012-07-31 There has been a growing interest in the notion of a scholarship of teaching Such scholarship is displayed through a teacher's grasp of and response to the relationships between knowledge of content teaching and learning in ways that attest to practice as being complex and interwoven Yet attempting to capture teachers' professional knowledge is difficult because the critical links between practice and knowledge for many teachers is tacit Pedagogical Content Knowledge PCK offers one way of capturing articulating and portraying an aspect of the

scholarship of teaching and in this case the scholarship of science teaching The research underpinning the approach developed by Loughran Berry and Mulhall offers access to the development of the professional knowledge of science teaching in a form that offers new ways of sharing and disseminating this knowledge Through this Resource Folio approach comprising CoRe and PaP eRs a recognition of the value of the specialist knowledge and skills of science teaching is not only highlighted but also enhanced The CoRe and PaP eRs methodology offers an exciting new way of capturing and portraying science teachers pedagogical content knowledge so that it might be better understood and valued within the profession This book is a concrete example of the nature of scholarship in science teaching that is meaningful useful and immediately applicable in the work of all science teachers preservice in service and science teacher educators It is an excellent resource for science teachers as well as a guiding text for teacher education Understanding teachers professional knowledge is critical to our efforts to promote quality classroom practice While PCK offers such a lens the construct is abstract In this book the authors have found an interesting and engaging way of making science teachers PCK concrete useable and meaningful for researchers and teachers alike It offers a new and exciting way of understanding the importance of PCK in shaping and improving science teaching and learning Professor Julie Gess Newsome Dean of the Graduate School of Education Williamette University This book contributes to establishing CoRes and PaP eRs as immensely valuable tools to illuminate and describe PCK The text provides concrete examples of CoRes and PaP eRs completed in real life teaching situations that make stimulating reading The authors show practitioners and researchers alike how this approach can develop high quality science teaching Dr Vanessa Kind Director Science Learning Centre North East School of Education Durham University

Biology/science Materials Carolina Biological Supply Company, 1991 *Glencoe Earth Science* Ralph M. Feather, 1999

Earth science is the study of Earth and space It is the study of such things as the transfer of energy in Earth s atmosphere the evolution of landforms patterns of change that cause weather the scale and structure of stars and the interactions that occur among the water atmosphere and land Earth science in this book is divided into four specific areas of study geology meteorology astronomy and oceanography p 8 9 **Handbook of Biology Part II** Chandan Sengupta, This book has been published with all reasonable efforts taken to make the material error free after the consent of the author No part of this book shall be used reproduced in any manner whatsoever without written permission from the author except in the case of brief quotations embodied in critical articles and reviews The Author of this book is solely responsible and liable for its content including but not limited to the views representations descriptions statements information opinions and references The Content of this book shall not constitute or be construed or deemed to reflect the opinion or expression of the Publisher or Editor Neither the Publisher nor Editor endorse or approve the Content of this book or guarantee the reliability accuracy or completeness of the Content published herein and do not make any representations or warranties of any kind express or implied including but not limited to the implied warranties of merchantability fitness for a particular purpose The Publisher

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Basics of Analytical Chemistry and Chemical Equilibria Brian M. Tissue, 2023-03-28

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Subject Specific Skills Electronic Spreadsheet Digital Presentation Practice Papers 1 3 Merrill Chemistry Robert C. Smoot, Smoot, Richard G. Smith, Jack Price, 1998 **Prentice Hall Physical Science Concepts in Action Program Planner National Chemistry Physics Earth Science** ,2003-11 Prentice Hall Physical Science Concepts in Action helps students make the important connection between the science they read and what they experience every day Relevant content lively explorations and a wealth of hands on activities take students understanding of science beyond the page and into the world around them Now includes even more technology tools and activities to support differentiated instruction Basic Building and Construction Skills Edward Hawkins, 2016-01-01 The fifth edition of Basic Building and Construction Skills is updated to support the new training package requirements It is written for apprentices completing Certificate I II III in Carpentry and the Certificate I II III in Carpentry and Joinery qualifications Now in full colour this new edition covers 8 core units of competency It has been fully updated to reflect present day building practices standards and legislation With a greater focus on sustainability Basic Building and Construction Skills 5e combines standard industry practice with the newest industry technology tools and benchmarks With updated end of section worksheets new content images and photos as well as a robust instructor support package Basic Building and Construction Skills 5e is an extremely useful resource for providing learners with the underpinning knowledge skills and awareness necessary for a successful career in building and carpentry Basic Building and Construction Skills 5e covers CPCCCA2011A Handle carpentry materials CPCCCA2002B Use carpentry tools and equipment CPCCCM1012A Work effectively and sustainably in the construction industry CPCCCM1013A Plan and organise work CPCCCM1014A Conduct workplace communication CPCCCM1015A Carry out measurements and calculations CPCCCM2001A Read and interpret plans and specifications CPCCOHS2001A Apply OHS Requirements Policies and Procedures in the Construction Industry CPCCOHS1001A Work Safely in the Construction Industry **Proceedings of the 1st Lawang Sewu International Symposium on Humanities and Social Sciences 2022 (LEWIS 2022)** Dodi Mulyadi, Siti Aimah, Eny Winaryati, 2023-06-23 This is an open access book 1st Lawang Sewu International Symposium 2022 on Humanities and Social Sciences is an annual international symposium held by Universitas Muhammadiyah Semarang Symposium will be held on November 29 2022 in Semarang Central Java Indonesia by online Lecturers professionals researches and students are invited in 1st Lawang Sewu International Symposium 2022 on Humanities and Social Sciences Multi field study including Education Psychology Economics and management are welcome The submitted papers must meet the criteria including originality novelty not yet published and must be written in English language Symposium will be held through online due to Covid 19 pandemic situation Glencoe Science McGraw-Hill Staff, 2001-06 Index Medicus ,2004 Vols for 1963 include as pt 2 of the Jan issue Medical subject headings American Artisan and Patent Record ,1866

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