

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 H • <i>(must share 1)</i>	chlorine • Cl • <i>(must share 1)</i>	HCl <i>(Formula shows 1 H and 1 Cl)</i>	
B.	hydrogen H • <i>(must share 1)</i>	oxygen • O • <i>(must share 2)</i>	H ₂ O <i>(Formula shows 2 H and 1 O)</i>	

Lesson 20 Covalent Bonds Worksheet

Carolina Biological Supply Company

A red circular graphic with a gradient, appearing as a partial circle on the right side of the page, overlapping the grey bar.

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 keeping 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 **Books in Print Supplement** ,2002 *Biology/science Materials* Carolina Biological Supply Company,1991 **Addison-Wesley Chemistry** ,1990 *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 **Merrill Chemistry** Robert C. Smoot,Smoot,Richard G. Smith,Jack Price,1998 **Understanding and Developing Science Teachers' Pedagogical Content Knowledge** John Loughran,Amanda Berry,Pamela Mulhall,2006 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 the

authors 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 a new way of capturing and portraying science teachers pedagogical content knowledge so that it might be better understood and valued within the profession Publisher ed *Glencoe Science* ,2002 **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 **Exploring Earth and Space** Michael DiSpezio,1995 A textbook exploring such aspects of matter and energy as heat electricity and nuclear chemistry with suggested activities and review questions at the end of each chapter **Te HS&T J** Holt Rinehart & Winston,Holt, Rinehart and Winston Staff,2004-02 **Te HS&T a** Holt Rinehart & Winston,Holt, Rinehart and Winston Staff,2004-02 Addison-Wesley Science Insights ,1996 Science Spectrum Holt Rinehart & Winston,Holt, Rinehart and Winston Staff,2003-03 **Iml Electrncs F/Computer Tech** Terrell,2002-06 A Plague on Both Your Houses Jennifer Michelle Sosnowski,2004 Science Insights ,1999

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