

Name: samantha poe Date: 11.18.22

Student Exploration: Covalent Bonds

Vocabulary: covalent bond, diatomic molecule, Lewis diagram, molecule, noble gases, nonmetal, octet rule, shell, valence, valence electron

Prior Knowledge Questions (Do these BEFORE using the Gizmo.)

1. There are eight markers in a full set, but Flora and Frank each only have seven markers. Flora is missing the red marker, and Frank is missing the blue marker.


What can they do so that each has a full set of markers? *Frank can share his red marker with Flora and Flora can share her blue marker with Frank.*

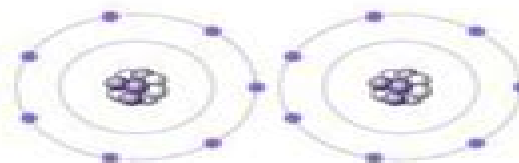
2. Otto and Olivia each have six markers. Otto is missing the purple and green markers, and Olivia is missing the black and brown markers. What can they do so that each has a full set?


Olivia can share her purple and green markers with Otto and Otto can share his black and brown markers with Olivia.

Gizmo Warm-up

Just like the students described above, **nonmetal** atoms can share electrons. As you will see in the *Covalent Bonds* Gizmo™, atoms form bonds in this way.

To begin, check that **Fluorine** is selected from the **Select a substance** menu. Click **Play** () to see the electrons orbiting the nucleus of each atom.



1. The outermost electrons in each atom are called **valence electrons**. How many valence electrons does each fluorine atom have? *Each fluorine atom has seven valence electrons.*
2. Click **Pause** () . Drag an electron from the left atom to the right atom. Click **Play**. What happens? *The electrons that was dragged now orbits both atoms.*

Exploration Guide Covalent Bonds

R Bogdan



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HowExpert Guide to Science HowExpert,2024-11-08 If you re ready to explore the world of science HowExpert Guide to Science is your essential resource covering everything from foundational principles to cutting edge innovations Designed for aspiring scientists students and curious minds this guide takes you on a journey through physics chemistry biology and beyond Focusing on key disciplines interdisciplinary connections ethics and practical knowledge this book offers insights tools and real world examples to truly understand science Chapter Highlights Introduction Discover science s role in everyday life and learn how to get the most from this guide Chapter 1 Foundations of Science Core principles the scientific method and the importance of hypotheses and theories Chapter 2 History of Science Major eras and groundbreaking discoveries that define modern science Chapter 3 Physics Matter energy mechanics thermodynamics and electromagnetism Chapter 4 Chemistry Matter s properties chemical reactions bonding and the periodic table Chapter 5 Biology Genetics evolution ecosystems and cellular biology Chapter 6 Earth Science Geology meteorology oceanography and environmental conservation Chapter 7 Astronomy Our solar system galaxies black holes and cosmology Chapter 8 Human Body Medical Science Human anatomy disease prevention and medical advances Chapter 9 Environmental Science Human impact on the planet sustainability and climate change Chapter 10 Mathematics in Science Math s role in research from probability to calculus Chapter 11 Social Sciences Psychology sociology and the science of human behavior Chapter 12 Technology Applied Sciences Engineering computer science and technological innovation Chapter 13 Data Science Research Research design data analysis and statistical significance Chapter 14 Cutting Edge Sciences Advances in nanotechnology AI quantum mechanics and genetic engineering Chapter 15 Interdisciplinary Science The impact of cross field collaboration and interdisciplinary research Chapter 16 Practical Applications Everyday science in technology health and the environment Chapter 17 Scientific Literacy Skills to evaluate scientific information and avoid misconceptions Chapter 18 Citizen Science How to participate in public science initiatives and projects Chapter 19 Philosophy Ethics of Science Ethical considerations and the role of scientists in society Chapter 20 Science Communication Education Techniques for communicating science and inspiring future generations Chapter 21 Science Careers Explore career paths educational requirements and emerging roles in science Chapter 22 The Future of Science Emerging fields

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role in modern pharmaceutical research From elucidating the electronic structure of molecules to exploring quantum algorithms for drug design and prediction this book equips readers with the essential knowledge and insights necessary to navigate the intersection of quantum mechanics and drug discovery with confidence and clarity **Applied Chemistry** Siddharth Venkatesh, 2025-02-20 Discover the essential aspects of chemistry in various industries with Applied Chemistry Practical Applications This comprehensive textbook provides an in depth understanding of fundamental chemical principles and their real world applications Covering a wide range of topics from chemical reactions and materials science to environmental chemistry and sustainable practices it caters to students researchers and professionals Written by experts our book blends theoretical concepts with practical examples offering a solid foundation in key concepts followed by discussions on their applications in industry technology and everyday life We emphasize sustainability green chemistry principles and environmentally friendly practices Clear explanations of complex topics are supported by diagrams illustrations and tables Our book integrates modern research findings and technological advancements in chemistry End of chapter summaries review questions and exercises reinforce learning and facilitate self assessment Supplementary materials including online resources and laboratory exercises enhance the learning experience Whether you re a student seeking an introduction to applied chemistry or a professional looking to expand your knowledge Applied Chemistry Practical Applications is an invaluable resource for understanding the practical aspects of chemistry in industry technology and society **The Three Functional States of Proteins** Timir Tripathi, Vladimir N Uversky, 2024-11-17 The Three Functional States of Proteins explores how structured proteins intrinsically disordered proteins and phase separated proteins contribute to the complexity of cellular life and offers insights into their roles in both health and disease It discusses the latest research findings and highlight groundbreaking discoveries and innovative methodologies used to study these protein states Traditionally the different states of proteins have been defined based on their structures and functions However it is becoming increasingly clear that these criteria alone may not be sufficient to capture the complex and multifaceted properties of these molecules Definitions based on thermodynamics and kinetics are now recognized as potentially more appropriate for comprehensively understanding protein states Emerging evidence indicates that under physiological conditions a majority of proteins possess the capability to exist in and transition between the native droplet and amyloid states These distinct states play crucial roles in various cellular functions influenced significantly by their physicochemical and structural properties The book also considers the interactions among these states and discusses how their internal organization as individual molecules as well as their collective organization as molecular assemblies are stabilized Furthermore it examines the processes by which these states are formed and the cellular functions associated with each specific state The book serves as an introduction to a unique volume that provides comprehensive coverage of these three functional states of proteins The chapters are written by leading global scientists who are actively engaged in research on these specific protein states It presents a broad picture of

the current emerging and evolving research on these protein states Given that this book comprehensively addresses both foundational concepts and recent advancements in the field it will appeal a broad spectrum of readers from various academic disciplines

Fluorinated Coatings and Finishes Handbook Laurence W. McKeen, 2015-10-11 Fluorinated Coatings and Finishes Handbook The Definitive User's Guide Second Edition addresses important frequently posed questions by end user design engineers coaters and coatings suppliers on fluorinated coatings and finishes thus enabling them to achieve superior product qualities and shorter product and process development times The book provides broad coverage of these fluorinated polymer coatings including the best known PTFE polytetrafluoroethylene first trademarked as Teflon and ePTFE GoreTex Their inherent qualities of low surface tension non stick low friction high melting point and chemical inertness make fluoropolymer coatings widely desirable across thousands of industrial and consumer applications but these properties also make it difficult to convert fluoropolymers to coatings that have sufficient adhesion to the substrate to be protected In this book readers learn how fluoropolymer coatings are used and made about their pigments and fillers binders dispersion processes additives and solvents The book includes substrate preparation coating properties baking and curing processes performance tests applications and health and safety Provides a practical handbook that covers the theory and practice of fluorinated coatings including the structure and properties of binders and how to get a non stick coating to stick to the substrate Covers liquid and powder fluorocoatings their applications methods curing and baking processes and their commercial end uses Presents detailed discussions of testing methods related to fluorocoatings common coating defects how they form how to eliminate them and the health and safety aspects of using and applying fluorocoatings Includes substrate preparation coating properties baking and curing processes performance tests applications and health and safety

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Introduction to Chemical Structure Donald Cotter, 2020-08-01 **The Juice Lady's Guide to Fasting** Cherie Calbom, 2017 Understand the different types of fasts and experience improved weight loss spiritual renewal and optimal health There is a new surge of interest in fasting yet many people are unaware of how to navigate the many types juice liquid diet raw foods and Daniel vegan diet and their various requirements and benefits The Juice Lady Cherie Calbom offers her nutritional expertise on the how-tos of fasting This comprehensive book provides menus recipes and strategic fasting guidelines You will learn how to begin what to eat and or drink how long to fast and how to break a fast Ultimately you will discover the myriad of benefits derived from fasting the right way for a healthy life *Exploring Chemistry (Loose-Leaf)*

Matthew Johll, 2012-05-04 Matthew Johll's Exploring Chemistry covers the standard topics for the nonmajors course in the typical order but each chapter unfolds in the context of a single case study that helps students connect what they are learning to real life situations. For example, students work through the often difficult topics of molecular structure, gas laws, and organic chemistry by learning about the development of powerful new chemotherapy drugs, new technologies for screening airline passengers, and the creation of biodegradable biopolymers. It's the same case-driven approach that Johll uses in his acclaimed Investigating Chemistry, now in its Third Edition, but Exploring Chemistry goes beyond the other book's specific focus on examples from forensic science to use real life stories from cooking, athletics, genetics, green chemistry, and more.

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