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Date: \_\_\_\_\_

## 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? Share

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?

Share 2

### 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? 7

2. Click **Pause** (). Drag an electron from the left atom to the right atom. Click **Play**.

What happens? it orbits both atoms

3. Click **Pause**, drag an electron from the right atom to the left, and then click **Play**.

What happens now? it orbits both atoms

# Student Exploration Covalent Bonds

**David Shubert, David C Shubert, John  
Leyba**



## **Student Exploration Covalent Bonds:**

**Student Reasoning in Organic Chemistry** Nicole Graulich, Ginger Shultz, 2022-12-21 Reasoning about structure reactivity and chemical processes is a key competence in chemistry Especially in organic chemistry students experience difficulty appropriately interpreting organic representations and reasoning about the underlying causality of organic mechanisms As organic chemistry is often a bottleneck for students success in their career compiling and distilling the insights from recent research in the field will help inform future instruction and the empowerment of chemistry students worldwide This book brings together leading research groups to highlight recent advances in chemistry education research with a focus on the characterization of students reasoning and their representational competencies as well as the impact of instructional and assessment practices in organic chemistry Written by leaders in the field this title is ideal for chemistry education researchers instructors and practitioners and graduate students in chemistry education Strategies for Teaching Science, Levels 6-12 Barbara Houtz, 2011-06-01 Developed for grades 6 12 this rich resource provides teachers with practical strategies to enhance science instruction Strategies and model lessons are provided in each of the following overarching topics inquiry and exploration critical thinking and questioning real world applications integrating the content areas and technology and assessment Research based information and management techniques are also provided to support teachers as they implement the strategies within this resource This resource supports core concepts of STEM instruction

Teaching Naked José Antonio Bowen, 2012-07-03 You've heard about flipping your classroom now find out how to do it Introducing a new way to think about higher education learning and technology that prioritizes the benefits of the human dimension Jos Bowen recognizes that technology is profoundly changing education and that if students are going to continue to pay enormous sums for campus classes colleges will need to provide more than what can be found online and maximize naked face to face contact with faculty Here he illustrates how technology is most powerfully used outside the classroom and when used effectively how it can ensure that students arrive to class more prepared for meaningful interaction with faculty Bowen offers practical advice for faculty and administrators on how to engage students with new technology while restructuring classes into more active learning environments **Chemistry and Physics for Nurse Anesthesia** David Shubert, David C Shubert, John Leyba, 2009-06-15 A welcome addition to the reference materials necessary for the study of nurse anesthesia The textbook is divided into logical easy to use sections that cover all areas necessary for the practice of nurse anesthesia This is a text that is easy to read and able to be incorporated into any nurse anesthesia chemistry and physics course I would recommend this textbook to any program director Anthony Chipas PhD CRNA Division Director Anesthesia for Nurses Program Medical University of South Carolina At last a combined chemistry physics nursing anesthesia text This textbook offers combined coverage of chemistry and physics to help students learn the content needed to master the underlying principles of nursing anesthesia Because many graduate nursing students are uncomfortable with

chemistry and physics this text presents only the specific content in chemistry and physics that relates to anesthesia Written in a conversational accessible style the book teaches at a highly understandable level so as to bridge the gap between what students recall from their undergraduate biochemistry and physics courses and what they need to know as nurse anesthetists The book contains many illustrations that demonstrate how the scientific concepts relate directly to clinical application in anesthesia Chapters cover key topics relating to anesthesiology including the basics of both chemistry and physics fluids a concentration on gas laws states of matter acids and bases electrical circuits radiation and radioactivity With this text students will benefit from A review of the math chemistry and physics basics that relate to clinical anesthesia A conversational presentation of just what students need to know enabling a fast and complete mastery of clinically relevant scientific concepts Heavy use of illustrations throughout chapters to complement the text End of chapter review questions that help students assess their learning PowerPoint Slides available to qualified instructors

**Chemistry and Physics for Nurse Anesthesia, Second Edition** David Shubert, PhD, John Leyba, PhD, 2013-03-15 Print CourseSmart

**Physicomimetics** William M. Spears, Diana F. Spears, 2012-01-05 Standard approaches to understanding swarms rely on inspiration from biology and are generally covered by the term biomimetics This book focuses on a different complementary inspiration namely physics The editors have introduced the term physicomimetics to refer to physics based swarm approaches which offer two advantages First they capture the notion that nature is lazy meaning that physics based systems always perform the minimal amount of work necessary which is an especially important advantage in swarm robotics Second physics is the most predictive science and can reduce complex systems to simple concepts and equations that codify emergent behavior and help us to design and understand swarms The editors consolidated over a decade of work on swarm intelligence and swarm robotics organizing the book into 19 chapters as follows Part I introduces the concept of swarms and offers the reader a physics tutorial Part II deals with applications of physicomimetics in order of increased complexity Part III examines the hardware requirements of the presented algorithms and demonstrates real robot implementations Part IV demonstrates how the theory can be used to design swarms from first principles and provides a novel algorithm that handles changing environments finally Part V shows that physicomimetics can be used for function optimization moving the reader from issues of swarm robotics to swarm intelligence The text is supported with a downloadable package containing simulation code and videos of working robots This book is suitable for talented high school and undergraduate students as well as researchers and graduate students in the areas of artificial intelligence and robotics

Level III: Student Text hm Group, 2000-04-13 High school students whether preparing for college or career need to learn greater independence and efficiency in their learning Rather than simply teach them how to study the hm Program emphasizes the need to understand their learning style empowering them to adapt to new situations throughout their lives They will learn how to improve their memory glean more from discussions prepare for exams expand their vocabulary and more

**The Mind at Hand** Michael

J. Strauss, 2013-01-01 *The Mind at Hand* explores how artists, scientists, writers, and others, students and professionals alike see their world, record it, revise it, and come to know it. It is about the rough drawn sketch, diagram, chart, or other graphic representation and the focus these provide for creative work that follows from them. Such work could involve solving a problem, composing a musical score, proposing a hypothesis, creating a painting, and many other imaginative and inventive tasks. The book is for visual learners of all kinds, for scientists as well as artists, and for anyone who keeps a journal, notebook, or lab book in order to think and create visually. It is also a book for teachers and educational administrators interested in learning about new active learning strategies involving drawing and possible outcomes of these in classrooms. The formulas and symbols of chemistry, the diagrams and features of the landscape in geology, and the organisms and structures in biology are all represented as images on pages or screens. Students create them when studying, problem solving, and learning. Once in front of their eyes, they can be reconsidered, revised, and reconstructed into new images for further consideration and revision. It is how artists often create a painting or a sculpture, and how scientists come up with new hypotheses. This is how learning occurs, not only across disciplines but in all kinds of creative endeavors through a continuing process of creation, revision, and re-creation. It is drawing to learn. **The Science Teacher**, 2004. Extreme Science M. Gail Jones, Amy R. Taylor, Michael R. Falvo, 2009. An understanding of scale and scaling effects is of central importance to a scientific understanding of the world. With *Extreme Science*, help middle and high school biology, Earth science, chemistry, physics, and math students develop quantitative evaluation. Comprehending scale at the largest and smallest levels is where a quantitative understanding of the world begins. **Build a Better CD Player** George C. Lisensky, 2000. **Introduction to Modern Inorganic Chemistry** Kenneth Malcolm Mackay, Rosemary Ann Mackay, 1989. **SME Mineral Processing and Extractive Metallurgy Handbook** Courtney A. Young, 2019-02-01. This landmark publication distills the body of knowledge that characterizes mineral processing and extractive metallurgy as disciplinary fields. It will inspire and inform current and future generations of minerals and metallurgy professionals. Mineral processing and extractive metallurgy are atypical disciplines requiring a combination of knowledge, experience, and art. Investing in this trove of valuable information is a must for all those involved in the industry: students, engineers, mill managers, and operators. More than 192 internationally recognized experts have contributed to the handbook's 128 thought-provoking chapters that examine nearly every aspect of mineral processing and extractive metallurgy. This inclusive reference addresses the magnitude of traditional industry topics and also addresses the new technologies and important cultural and social issues that are important today. Contents: Mineral Characterization and Analysis; Management and Reporting; Comminution; Classification and Washing; Transport and Storage; Physical Separations; Flotation; Solid and Liquid Separation; Disposal; Hydrometallurgy; Pyrometallurgy; Processing of Selected Metals; Minerals and Materials. *Astrobiology* Kevin W. Plaxco, Michael Gross, 2011-09-01. Informed by new planetary discoveries and the findings from recent robotic missions to Mars, Jupiter, and Saturn, scientists are rapidly

replacing centuries of speculation about potential extraterrestrial habitats with real knowledge about the possibility of life outside our own biosphere if it exists and where This second edition of Kevin W Plaxco and Michael Gross s widely acclaimed text incorporates the latest research in astrobiology to bring readers the most comprehensive up to date and engaging introduction to the field available Plaxco and Gross expand their examination of the origin of chemical elements the developments that made the Universe habitable and how life continues to be sustained They discuss in great detail the formation of the first galaxies and stars the diverse chemistry of the primordial planet the origins of metabolism the evolution of complex organisms and the feedback regulation of Earth s climate They also explore life in extreme habitats potential extraterrestrial habitats and the current status of the search for extraterrestrial life Weaving together the relevant threads of astronomy geology chemistry biophysics and microbiology this broadly accessible introductory text captures the excitement controversy and progress of the dynamic young field of astrobiology New to this edition is a glossary of terms and an epilogue recapping the key unanswered questions making Astrobiology an ideal primer for students and indeed for anyone curious about life and the Universe

**Chemistry and Physics for Nurse Anesthesia** David Shubert, PhD, John Leyba, PhD, Sharon Niemann, DNAP, CRNA, 2017-01-25 Promotes ease of understanding with a unique problem solving method and new clinical application scenarios With a focus on chemistry and physics content that is directly relevant to the practice of anesthesia this text delivers in an engaging conversational style the breadth of scientific information required for the combined chemistry and physics course for nurse anesthesia students Now in its third edition the text is updated and reorganized to facilitate a greater ease and depth of understanding It includes additional clinical application scenarios detailed step by step solutions to problems and a Solutions Manual demonstrating a unique method for solving chemistry and physics problems and explaining how to use a calculator The addition of a third author a practicing nurse anesthetist provides additional clinical relevance to the scientific information Also included is a comprehensive listing of need to know equations The third edition retains the many outstanding learning features from earlier editions including a special focus on gases the use of illustrations to demonstrate how scientific concepts relate directly to their clinical application in anesthesia and end of chapter summaries and review questions to facilitate self assessment Ten on line videos enhance teaching and learning and abundant clinical application scenarios help reinforce scientific principles and relate them to day to day anesthesia procedures This clear easy to read text will help even the most chemistry and physics phobic students to master the foundations of these sciences and competently apply them in a variety of clinical situations New to the Third Edition The addition of a third co author a practicing nurse anesthetist provides additional clinical relevance Revised and updated to foster ease of understanding Detailed step by step solutions to end of chapter problems Solutions Manual providing guidance on general problem solving calculator use and a unique step by step problem solving method Additional clinical application scenarios Comprehensive list of all key equations with explanation of symbols New instructor materials include PowerPoint

slides Updated information on the gas laws Key Features Written in an engaging conversational style for ease of understanding Focuses solely on chemistry and physics principles relevant to nurse anesthetists Provides end of chapter summaries and review questions Includes abundant illustrations highlighting application of theory to practice

**The Use of Radioautography in Investigating Protein Synthesis** C. P. Leblond, Katherine Brehme Warren, 1965-01-01 The Use of Radioautography in Investigating Protein Synthesis is a collection of papers that discusses the tracing of labeled proteins through photographic emulsion particularly radioautography or autoradiography The papers discuss proteins at the site of their synthesis their subsequent migration through the cell their secretions and the formation of the basement lamella in salamanders One paper outlines the primary aims in specimen preparation for electron microscope autoradiographic techniques and the procedures to achieve them Another paper reports on migrating proteins CNP and nonmigrating proteins of the Amoeba proteus nucleus in which nonmigrating proteins are sedimentable by centrifugation in situ in the nucleus One paper investigates the extent of protein synthesis for cell renewal in thoracic duct lymphocytes TDL or that for export or intracellular turnover The protein synthesized by the large cell population in TDL is associated with mitosis and cell renewal A major portion of that synthesized by the medium cells 80 per cent and practically all of that produced by small cells are for purposes other than cell renewal The collection can prove beneficial to biochemists micro biologists bio physicists cytologists histologists pathologists cellular researchers and academicians involved in the study of cellular biology

The American Biology Teacher ,1958

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