

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.*
3. Click **Pause**, drag an electron from the right atom to the left, and then click **Play**. What happens now? *A pair of electrons now orbit both atoms.*

Answer Key To Student Exploration Covalent Bonds

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Answer Key To Student Exploration Covalent Bonds:

Resources for Teaching Middle School Science Smithsonian Institution, National Academy of Engineering, National Science Resources Center of the National Academy of Sciences, Institute of Medicine, 1998-04-30 With age appropriate inquiry centered curriculum materials and sound teaching practices middle school science can capture the interest and energy of adolescent students and expand their understanding of the world around them *Resources for Teaching Middle School Science* developed by the National Science Resources Center NSRC is a valuable tool for identifying and selecting effective science curriculum materials that will engage students in grades 6 through 8 The volume describes more than 400 curriculum titles that are aligned with the National Science Education Standards This completely new guide follows on the success of *Resources for Teaching Elementary School Science* the first in the NSRC series of annotated guides to hands on inquiry centered curriculum materials and other resources for science teachers The curriculum materials in the new guide are grouped in five chapters by scientific area Physical Science Life Science Environmental Science Earth and Space Science and Multidisciplinary and Applied Science They are also grouped by type core materials supplementary units and science activity books Each annotation of curriculum material includes a recommended grade level a description of the activities involved and of what students can be expected to learn a list of accompanying materials a reading level and ordering information The curriculum materials included in this book were selected by panels of teachers and scientists using evaluation criteria developed for the guide The criteria reflect and incorporate goals and principles of the National Science Education Standards The annotations designate the specific content standards on which these curriculum pieces focus In addition to the curriculum chapters the guide contains six chapters of diverse resources that are directly relevant to middle school science Among these is a chapter on educational software and multimedia programs chapters on books about science and teaching directories and guides to science trade books and periodicals for teachers and students Another section features institutional resources One chapter lists about 600 science centers museums and zoos where teachers can take middle school students for interactive science experiences Another chapter describes nearly 140 professional associations and U S government agencies that offer resources and assistance Authoritative extensive and thoroughly indexed and the only guide of its kind *Resources for Teaching Middle School Science* will be the most used book on the shelf for science teachers school administrators teacher trainers science curriculum specialists advocates of hands on science teaching and concerned parents

High School Chemistry Unlocked The Princeton Review, 2016-11-29 UNLOCK THE SECRETS OF CHEMISTRY with THE PRINCETON REVIEW High School Chemistry Unlocked focuses on giving you a wide range of key lessons to help increase your understanding of chemistry With this book you ll move from foundational concepts to complicated real world applications building confidence as your skills improve End of chapter drills will help test your comprehension of each facet of chemistry from atoms to alpha radiation Don t feel locked out Everything You Need to Know

About Chemistry Complex concepts explained in straightforward ways Walk throughs of sample problems for all topics Clear goals and self assessments to help you pinpoint areas for further review Guided examples of how to solve problems for common subjects Practice Your Way to Excellence 165 hands on practice questions seeded throughout the chapters and online Complete answer explanations to boost understanding Bonus online questions similar to those you ll find on the AP Chemistry Exam and the SAT Chemistry Subject Test High School Chemistry Unlocked covers Building blocks of matter Physical behavior of matter Chemical bonding Chemical reactions Stoichiometry Solutions Acids and bases Equilibrium Organic chemistry Radioactivity and more The Software Encyclopedia 2001 ,2001 **Holt Chemistry** Ralph Thomas Myers,2004 **The Art and Science of Questions** Ronald Legarski,2024-09-28 In The Art and Science of Questions Ronald Legarski explores the profound power of questioning in shaping human thought innovation and discovery Whether in business science education or everyday life the ability to ask the right question can lead to deeper understanding better decisions and groundbreaking ideas This book offers a comprehensive guide to mastering the art of inquiry covering various types of questions from open ended to leading reflective and hypothetical and providing practical methods for applying them in real world contexts With insights drawn from philosophy psychology leadership and technology this book equips readers with the tools to ask more effective questions and unlock the full potential of inquiry Legarski also delves into the future of questioning examining how artificial intelligence virtual reality and quantum computing will revolutionize how we ask and answer questions in the coming decades Whether you re a student a professional or simply a curious mind The Art and Science of Questions will transform the way you approach problem solving learning and communication Key Features Detailed exploration of question types including funneling Socratic and reflective questioning Real world case studies demonstrating the impact of effective questioning across various fields Practical strategies for improving critical thinking decision making and leadership through inquiry Insight into the future of questioning with AI and emerging technologies Published by SolveForce 2024 **Using ICT to Enhance Teaching and Learning in Chemistry** Steve Lewis,2004 Information and Communications Technology has revolutionised the ways we process access and use information and as computers and other devices become ever more powerful and information becomes more readily available the next generation will need to be able to interact with digital media effectively to exploit these amazing new technologies to their full potential for the benefit of society It is therefore imperative that teachers become familiar with ICT and its true potential and can present information with a perspective similar to that which the present generation of young people is using to develop their interests in their everyday life This resource from the RSC gives teachers of chemistry the practical help needed to integrate ICT into their teaching and stimulate the enthusiasm of a new generation of scientists in the exciting new areas of chemistry that are opening up such as Nanoscience and Nanotechnology Furthermore it will be highly effective in developing the new ethos of sustainability that will be a major driving force behind the next advances in chemistry that are

vital if we are to survive the manifold problems confronting society in the next few decades This resource is ideal for all secondary teachers of chemistry trainee teachers and university lecturers

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