

Student Exploration: Covalent Bonds

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

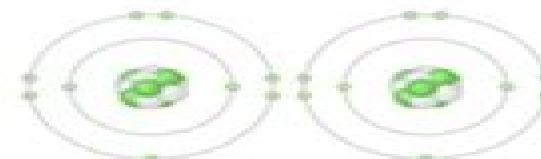
Prior Knowledge Questions (Do these BEFORE using the Gizmo.)

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? They should share Markers to have a full set.
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? The should share markers to have a full set.

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 Valence electrons
2. Click **Pause** (⏸). Drag a valence electron from the left atom to the right atom. Click **Play**. What happens? A shell is added that connects the two atoms.
3. Click **Pause**, drag a valence electron from the right atom to the left, and then click **Play**. What happens now? An electron is added to the shell that is connecting the two atoms.



Answers For Student Exploration Covalent Bonds

Terry C. Jones

Answers For 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 *Students Solutions Manual to Accompany Physical Chemistry: Quanta, Matter, and Change 2e* Charles Trapp, Marshall Cady, Carmen Giunta, 2014 The *Students Solutions Manual to Accompany Physical Chemistry Quanta Matter and Change 2e* provides full worked solutions to the a exercises and the odd numbered discussion questions and problems presented in the parent book The manual is intended for students and instructors alike and provides helpful comments and friendly advice to aid understanding *AQA Smart GCSE Chemistry: AQA Smart GCSE Chemistry Teacher Handbook* Kristy

Turner,2025-09-11 This AQA GCSE Chemistry Teacher Handbook ebook edition has been brought right up to date to meet the needs of today's science teachers. Subject and non subject specialists can be confident that this guide gives them what they need to pick up and teach GCSE Chemistry lessons that will have a lasting impact on their students. This book is full of clear guidance and explanations including topic overviews, common misconceptions, key terminology and ideas to help you to relate the content to relevant contexts and students' experiences. Drawing on insights from current research, evidence informed teaching strategies support your professional development. Use this along with the Biology and Physics AQA GCSE Science Teacher Handbooks as well as the matching Student Books. A print version of this book (9781382051453) is also available to buy separately.

Reading Actively in Middle Grade Science Don K. Philpot,2020-09-15 Middle grade students can learn a great deal about themselves and their world by reading informative texts in science courses. These texts will focus on important topics in earth science, life science, and physical science, and shape students' understandings about scientific inquiry, science related processes and phenomena, engineering and design, and technological innovations. But reading is a complex act, and most students need specific reading related support to understand assigned texts in middle grade science courses. This book focuses on the cyclical nature of reading the actions proficient readers engage in to understand science textbooks and other informational texts, and the instructional support that teachers can provide to enhance middle grade students' learning of science content through reading. Three associated questions will be addressed in this book: What actions do proficient readers engage in to understand assigned course texts? What do these actions entail and how do they relate to each other? What teacher mediated practices best support middle grade students' development as proficient readers and enhance their learning of course content through reading?

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Prentice Hall Science Explorer Michael J. Padilla,2002

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