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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

# Answers For Student Exploration Covalent Bonds

**Yi-Tong Ma**



## **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 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 **Prentice Hall Chemistry**, 2000 **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 phenomenon 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 Oswaal CBSE & NCERT One for All Class 10 Science | With Topic Wise Notes For 2025 Board Exam

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**Topicwise Solved Papers For Board Exams 2025** Oswaal Editorial Board, 2024-01-19 Description of the product 100% Updated Syllabus Fully Solved Board Papers We ve got you covered with the latest and 100% updated curriculum Timed Revision with Topic wise Revision Notes Smart Mind Maps Mnemonics to Study smart not hard Extensive Practice with 2000 Questions Board Marking Scheme Answers Yep you read that right 2000 chances to become a champ Concept Clarity with 500 Concepts 50 Concept Videos to learn the cool way with videos and mind blowing concepts NEP 2020 Compliance with Competency Based Questions because we re on the cutting edge of the coolest educational trends **Prentice Hall**

**Science Explorer** Michael J. Padilla, 2002 **An Introduction to Physical Science** James T. Shipman, Jerry D.

Wilson, Aaron W. Todd, 2002-07-08 This text presents a survey of the physical sciences physics chemistry astronomy meteorology and geology for non science majors Topics are treated both descriptively and quantitatively providing flexibility for instructors who wish to emphasize a highly descriptive approach a highly quantitative approach or any spectrum in between *Chemical Interactions*, 2005 The Software Encyclopedia 2001, 2001 **Science Scope**, 2000

*Biology/science Materials* Carolina Biological Supply Company, 1991 **Six Ideas That Shaped Physics: Unit Q -**

**Particles Behaves Like Waves** Thomas A Moore, 2003-01-09 SIX IDEAS THAT SHAPED PHYSICS is the 21st century s alternative to traditional encyclopedic textbooks Thomas Moore designed SIX IDEAS to teach students to apply basic physical principles to realistic situations to solve realistic problems to resolve contradictions between their preconceptions and the laws of physics to organize the ideas of physics into an integrated hierarchy **The Impact of Formative Assessment**

**Techniques on the Instruction of the High School Biology Units of Photosynthesis and Cellular Respiration**

Shanna Fawn Tury,2010      Introduction to Modern Inorganic Chemistry Kenneth Malcolm Mackay,Rosemary Ann Mackay,1989      **Biology** ,1999      **Holt Chemistry** Ralph Thomas Myers,2004      **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      *Glencoe Science* McGraw-Hill Staff,2001-06  
*Mineralogical Magazine* ,1991

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