

Lesson #: 5.3	Unit: Chemistry	Topic: Covalent Bonding
Objectives: SWBAT explain the difference between covalent bonds and ionic bonds. Students will be able to describe how covalent bonds form multiple bonds.		Materials: Element bonding cards
KPCS Standard: S1-4b. Explain how compounds are formed, and how their properties are different than the atoms they are composed of.		
Assessment: Students will identify how to form compounds based on the number of bonds available for each pair.		Vocabulary: covalent bond, single bond, double bond, triple bond
Do-Now: What types of elements typically form ionic bonds? What compounds would be formed by the following elements: Ca and F, Na and O, Al and O.		Agenda: <ol style="list-style-type: none"> 1. Do Now (5 min) 2. Covalent Bonds (10 min) 3. Multiple Bonds (20 min) 4. Independent Practice (20 min) 5. Share (10 min) 6. Reflect (5 min)
Motivation: Sometimes elements form covalent bonds where they share more than 2 electrons. This can determine their friendships-there can be friends (single bonds), best friends (double bonds), or BFFs (triple bonds).		
New Material: <ul style="list-style-type: none"> • Covalent bonds are formed when elements share electrons. Usually, elements will share 2 electrons in order to fulfill their outermost shells, but they can also share 4 with a double bond, or 6 with a triple bond. 		
Guided Practice: <ol style="list-style-type: none"> 1. Review how covalent bonds are formed. Remind that covalent bonds occur when electrons are shared, and ionic bonds are where electrons are given and taken. 2. When covalent bonds are formed, they can share 2, 4 or 6 electrons in order to fill their outermost shells. By looking at the elements that are bonding, you can determine how many bonds are being shared. 		
Independent Practice: <ol style="list-style-type: none"> 3. Students will practice drawing Lewis structures of both covalent and ionic bonds. They will practice ensuring that each has 8 valence electrons. 		
Closing: <ol style="list-style-type: none"> 4. All elements want to have 8 valence electrons in their outermost shells. They can accomplish this by forming ionic or covalent bonds. 		
Assessment Questions: <ol style="list-style-type: none"> 5. What elements typically form ionic bonds? Covalent bonds? 6. Covalent bonds can form up to how many bonds? 7. Choose two of the following elements and show what compound they would form. Identify whether it's ionic or covalent. 		
Homework: <ol style="list-style-type: none"> 8. Forming covalent bonds. 		
Differentiation: <ol style="list-style-type: none"> 9. Students with special needs can work with another student to show the bonds that are formed. 		

Lesson 20 Covalent Bonds Unit 4

Tobias Bleicker



Lesson 20 Covalent Bonds Unit 4:

General Chemistry Workbook Daniel C. Tofan, 2010-07-28 This workbook is a comprehensive collection of solved exercises and problems typical to AP introductory and general chemistry courses as well as blank worksheets containing further practice problems and questions It contains a total of 197 learning objectives grouped in 28 lessons and covering the vast majority of the types of problems that a student will encounter in a typical one year chemistry course It also contains a fully solved 50 question practice test which gives students a good idea of what they might expect on an actual final exam covering the entire material

Forensic Polymer Engineering Peter Rhys Lewis, 2010-02-18 Given the infinite number of applications of polymeric materials in everyday life especially applications where a failure in service may lead to economic loss injury or death the ability to determine the cause of failure using forensic engineering techniques is essential Forensic polymer engineering Why polymer products fail in service reviews the latest forensic engineering techniques used in the investigation of failed polymer materials It presents a series of case studies which illustrate the different types of failure and the forensic engineering techniques used in their investigation The first chapters give an introduction to forensic polymer engineering and an overview of the examination and analysis of failed polymer components Further chapters give detailed case studies of failure and forensic investigation of polymeric medical devices polymer storage tanks small polymeric containers polymer pipes and fittings polymeric seals polymeric tools and ladders polymer components in transport applications and polymer consumer products A final concluding chapter provides information on causes of product failure and discusses poor manufacturing methods poor design poor choice of materials and failure due to insufficient account being taken of environmental factors With its distinguished authors Forensic polymer engineering Why polymer products fail in service is a standard reference for forensic experts practicing in all engineering fields that involve polymeric materials as well as design and construction professionals product manufacturers and insurance professionals Reviews the latest forensic engineering techniques used in the investigation of failed polymer components Detailed case studies illustrate different types of failure in polymer components fittings and medical devices Examines the role of manufacturing in product failure with an overview of faults recognised in methods design and material selection

Biology, Vol. I: Lessons 1 - 45 Quantum Scientific Publishing, 2023-06-12 Quantum Scientific Publishing QSP is committed to providing publisher quality low cost Science Technology Engineering and Math STEM content to teachers students and parents around the world This book is the first of four volumes in Biology containing lessons 1 45 Volume I Lessons 1 45 Volume II Lessons 46 90 Volume III Lessons 91 135 Volume IV Lessons 136 180 This title is part of the QSP Science Technology Engineering and Math Textbook Series

Progress in Physics, vol. 4/2009 Dmitri Rabounski Larissa Borissova, Florentin Smarandache, Larissa Borissova, Progress in Physics has been created for publications on advanced studies in theoretical and experimental physics including related themes from mathematics

Lessons in Environmental Microbiology Roger Tim Haug, 2019-07-17 Lessons in Environmental

Microbiology provides an understanding of the microbial processes used in the environmental engineering and science fields. It examines both basic theory as well as the latest advancements in practical applications including nutrient removal and recovery, methanogenesis, suspended growth bioreactors, and more. The information is presented in a very user-friendly manner; it is not assumed that readers are already experts in the field. It also offers a brief history of how microbiology relates to sanitary practice and examines the lessons learned from the great epidemics of the past. Numerous worked example problems are presented in every chapter.

A Unit on Photosynthesis and Cellular Respiration for Secondary Biology Students Kathy R. Pollock, 1998

Basic Electronic Devices and Circuits Donald J. Grantham, 1977

N this book Tom Brokaw goes out into America to tell through the stories of individual men and women the story of a generation: America's citizen heroes and heroines who came of age during the Great Depression and the Second World War and went on to build modern America. This generation was united not only by a common purpose but also by common values: duty, honor, economy, courage, service, love of family and country, and above all, responsibility for oneself. In this book you will meet people whose everyday lives reveal how a generation persevered through war and were trained by it and then went on to create interesting and useful lives and the America we have today.

Resources in Education, 1997-04

SourceBook Version 2.1, 1998

Layered Nanomaterials for Solution-Processed Optoelectronics Manjeet Singh, Ashish Kumar Singh, Balaram Pani, 2025-03-17

This book will provide different strategies and deliberate engineering concepts for the processing and application of advanced nanomaterials with layered structures for optoelectronic devices to enable device production at an industrial scale. Layered Nanomaterials for Solution Processed Optoelectronics provides exhaustive state-of-the-art knowledge centered on the various two-dimensional (2D) nanomaterials and their different types of applications in optoelectronic device fabrication. The first few chapters focus on the processing and application of the 2D MXene in devices for energy conversion and storage. Then there is discussion on 2D perovskite-based nanomaterials for fabrication of photovoltaic devices and flexible light-emitting diodes. The readers will gain insight into large-area fabrication methods of flexible devices using advanced nanomaterials with layered structures such as graphene, conjugated COFs, 2D hBN, hexagonal boron nitride, silicene, 2D polymers, transition metal dichalcogenides, and black phosphorous. Each chapter discusses the strategies and challenges for applications of layered nanomaterials in optoelectronics. This book is intended for graduate students, researchers, and engineers working in the area of advanced nanomaterials, energy conversion, energy storage, sensors, and different types of optoelectronic devices.

Science Makes Sense, 1969

The Software Encyclopedia, 1997

General Chemistry: Experiment and Theory Richard H. Eastman, 1970

Discover Science: Teacher's annotated edition, 1991

Science content helps develop the skills needed to understand how science works, learn new concepts, solve problems, and make decisions in today's technological society.

Merrill Chemistry Robert C. Smoot, Smoot, Richard G. Smith, Jack Price, 1998

Prentice Hall Physical Science Concepts in Action Program

Planner National Chemistry Physics Earth Science ,2003-11 Prentice Hall Physical Science Concepts in Action helps students make the important connection between the science they read and what they experience every day Relevant content lively explorations and a wealth of hands on activities take students understanding of science beyond the page and into the world around them Now includes even more technology tools and activities to support differentiated instruction

Foundations of Physical Science Tom Hsu PH.D.,2002 **The Michigan Journal** ,2008 **Government Reports Annual Index** ,1992 Bowker's Directory of Videocassettes for Children 1999 R R Bowker Publishing,Bowker,1999-03

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Fuses and relays Honda Airwave (GJ), 2005 - 2010 Sep 24, 2021 — The fuse box is located behind the additional glove compartment. General form. Diagram ... Fuse box diagram Honda Airwave and relay with ... In the passenger compartment, the main fuse and relay box is located at the bottom of the instrument panel on the driver's side, behind a protective cover. Honda In this publication you will find information describing fuses and relays for Honda Avancer with fuse box diagrams, photographs and their locations. Select the ... Fuse Box Diagram Honda Fuse box diagrams (location and assignment of the electrical fuses and relays) Honda. Honda Airwave Owner's Manuals PDF Honda Airwave with a gasoline engine - owner's manuals. guide to repair and maintenance, wiring diagrams, operating instructions PDF free download. New Owner Airwave Fuse box ? - Tech Help Dec 5, 2017 — Hi all I have a 2008 Honda airwave that I was trying different plugs for the accesory/cigarette socket , and I think I must have blown the ... Fuse box location and diagrams: Honda Fit (GE; 2009-2014) Fuse Locations Located in the back side of the engine compartment on the left side. Push the tabs to open the box. Fuse locations are shown on the fuse box cover. Buy Fuse HONDA AIRWAVE online The best selling Fuse replacement parts for HONDA AIRWAVE are available for your in original quality from our Fuse catagory. Previous. -25%. What's in the Box? To have the the backup camera come on when you go into reverse, connect the BLUE wire to reverse power (or any power source that comes on only in reverse). • ... 17+ Car Reverse Camera Wiring Diagram Apr 16, 2020 — 17+ Car Reverse Camera Wiring Diagram. Jason Csorba · REVERSING CAMERA. Rv Backup Camera · Car Camera · Backup Camera Installation. Installation Manual - 7.0" TFT Dash Monitor Connect the camera(s) video cable(s) to the monitor's corresponding channel cable. 1. Connect the monitor's power wire. (red) to a 12v positive power supply on ... 7" TFT LCD COLOR Rear Vision Monitor Each camera's Normal / Mirror view can be selected. 1. NORMAL / MIRROR. - 2 Trigger signals can be connected and each trigger source (1CAM,. 2CAM ... Wireless Rear View Camera System VECLESUS VS701MW wireless backup camera system contains a 7" TFT LCD color wireless monitor and a super night vision weather proof wireless camera, with 2.4G. 2010 - tapping into oem back up camera / tft screen Sep 10, 2013 — Looking at the wiring diagram the connector is EF1. The pins are as follows: (13) Red, Camera V+ (14) White, Camera V- (15) Gray, +12 volts ... [DIY] Installing a Rear View Camera (With Diagrams) May 5, 2016 — Splice Either Reverse Lights Positive and Negative Wire. STEP 4: (DIAGRAM)

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