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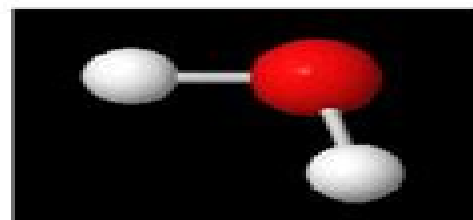
Student Exploration: Molecule Builder

Directions: Follow the instructions to go through the simulation. Respond to the questions and prompts in the orange boxes.

Vocabulary: chemical bond, chemical formula, covalent bond, double covalent bond, cyclic molecule, hydrocarbon, ionic bond, isomers, Lewis structure, molecule, organic compound

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

Look at the water **molecule**. In the molecule, **chemical bonds** are shown as lines between atoms.



1. The red atom in the middle is oxygen. How many bonds does oxygen have?

Two covalent bonds.

2. The two white atoms are hydrogens. How many bonds does one hydrogen atom have?

One

3. The **chemical formula** of water is H_2O . In this formula, what do you think the "2" between the H and O refers to?

Two hydrogen atoms

Gizmo Warm-up

In the Molecule Builder Gizmo, drag an oxygen atom into the white simulation area. The short blue lines extending from the atom represent possible chemical bonds.



1. How many bonds can oxygen form?

two

2. Drag a hydrogen atom into the area. How many bonds can oxygen form?

one

3. Drag the hydrogen atom on top of the oxygen atom. What happens?

They bond together.

The black line represents a chemical bond between the hydrogen and oxygen atoms.

4. Bond another hydrogen atom to the other side of the oxygen atom. Now, enter the formula "H₂O" into the **Type the formula below** box. Congratulations! You have created a water

Virtual Lab Exploration Guide

United States. Bureau of Reclamation

A red circular graphic with a gradient, appearing as a stylized arrow or a partial circle, located to the right of the text 'United States. Bureau of Reclamation'.

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Exploring Artificial Intelligence: A Student's Handbook Dr Thiyagarajan Sivaprakasam, Dr. Jeyashree Swaminathan, Jawahar Sri Prakash Thiyagarajan, 2024-05-15 *Exploring Artificial Intelligence A Student's Handbook* is a comprehensive educational guide designed to demystify AI for students covering foundational theories and practical applications across twenty chapters. It progresses from basic machine learning algorithms to advanced topics incorporating interactive quizzes, Did You Know facts and real world examples to enrich learning. The book emphasizes hands on interaction with AI through step by step activities aiming to bridge theory and practice. It also addresses the ethical, societal and futuristic aspects of AI, encouraging readers to consider the broader implications of AI technologies. This handbook serves as a foundational resource for aspiring AI enthusiasts, researchers and practitioners fostering a deeper understanding of AI's impact on the future.

Internet Research Skills Niall O'Dochartaigh, Niall Ó Dochartaigh, 2007 *Internet Research Skills* is a clear and concise guide to the effective use of the Internet for students in the social sciences. The open web is becoming central to student research practice not least because of its accessibility and this clear text describes search strategies and outlines the critical skills necessary to deal with such diverse and disorganized materials. This book covers all of the essential aspects of Internet research with each chapter containing a number of illustrations, inset boxes and short exercises. [Complete A+ Guide to IT Hardware and Software Lab Manual](#) Cheryl A. Schmidt, 2019-07-17 The companion *Complete A Guide to IT Hardware and Software Lab Manual* provides students hands on practice with various computer parts, mobile devices, wired networking, wireless networking, operating systems and security. The 155 labs are designed in a step by step manner that allows students to experiment with various technologies and answer questions along the way to consider the steps being taken. Some labs include challenge areas to further practice the new concepts. The labs ensure students gain the experience and confidence required to succeed in industry.

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THE ETHICAL HACKER'S HANDBOOK Anup Bolshetty, 2023-04-21 In the digital age cybersecurity has become a top priority for individuals and businesses alike With cyber threats becoming more sophisticated it's essential to have a strong defense against them This is where ethical hacking comes in the practice of using hacking techniques for the purpose of identifying and fixing security vulnerabilities In **THE ETHICAL HACKER'S HANDBOOK** you'll learn the tools and techniques used by ethical hackers to protect against cyber attacks Whether you're a beginner or a seasoned professional this book offers a comprehensive guide to understanding the latest trends in cybersecurity From web application hacking to mobile device hacking this book covers all aspects of ethical hacking You'll also learn how to develop an incident response plan identify and contain cyber attacks and adhere to legal and ethical considerations With practical examples step by step guides and real world scenarios **THE ETHICAL HACKER'S HANDBOOK** is the ultimate resource for anyone looking to protect their digital world So whether you're a business owner looking to secure your network or an individual looking to safeguard your personal information this book has everything you need to become an ethical hacker and defend against cyber threats

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The Latino Student's Guide to STEM Careers Laura I. Rendón,Vijay Kanagala,2017-09-08 This book is an essential resource that Latino a students and families need to make the best decisions about entering and succeeding in a STEM career It can also serve to aid faculty counselors and advisors to assist students at every step of entering and completing a STEM career As a fast growing major segment of the U S population the next generation of Latinos and Latinas could be key to future American advances in science and technology With the appropriate encouragement for Latinos as to enter science technology engineering and mathematics STEM careers they can become the creative innovators who will produce technological advances we all need and can enjoy from faster tech devices to more energy efficient transportation to cures for diseases and medical conditions This book presents a compelling case that the nation s Hispanic population must be better represented in STEM careers and that the future of America s technological advances may well depend on the Latino a population It focuses on the importance of STEM education for Latinos as and provides a comprehensive array of the most current information students and families need to make informed decisions about entering and succeeding in a STEM career Students families and educators will fully understand why STEM is so important for Latinos as how to plan for a career in STEM how to pay for and succeed in college and how to choose a career in STEM The book also includes compelling testimonials of Latino a students who have completed a STEM major that offer proof that Latinos as can overcome life challenges to succeed in STEM fields

Handbook of Research on Immersive Digital Games in Educational Environments Krassmann, Aliane Loureiro,Amaral, Érico Marcelo Hoff do,Nunes, Felipe Becker,Voss, Gleizer Bierhalz,Zunguze, Manuel Constantino,2018-08-31 Education is

increasingly being involved with technological resources in order to meet the needs of emerging generations consequently changing the way people teach and learn Game based learning is a growing aspect of pedagogical practice and it is important to disseminate research trends and innovations in this field The Handbook of Research on Immersive Digital Games in Educational Environments provides emerging research exploring the theoretical and practical aspects of digital games and technological resources and applications within contemporary education Featuring coverage on a broad range of topics such as digital integration educational simulation and learning theories this book is ideally designed for teachers pre service teachers students educational researchers and education software developers seeking current research on diverse immersive platforms and three dimensional environments that support the creation of digital games and other applications to improve teaching and learning processes The Washington Manual of Rheumatology Subspecialty Consult Peter A.

Humphrey,Louis P. Dehner,John D. Pfeifer,2012-05-28 The aim of this book is to provide a practical manual that is helpful to pathologists and residents in the daily practice of surgical pathology The text encompasses all anatomic sites in the human body Each chapter covers tissue handling gross examination gross dissection and diagnosis processing slide preparation microscopic diagnosis special studies and diagnostic reporting The format of the book would be modeled after the Washington Manuals for other specialties such as Medical Therapeutics Oncology and Surgery Provided by publisher

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K.S. Cheung, Reggie Kwan, 2012-06-25 This book constitutes the refereed proceedings of the International Conference on ICT in Teaching and Learning ICT 2012 held in Hong Kong China in July 2012 The 19 revised full papers presented were carefully reviewed and selected from numerous submissions They explore the use of information technology to improve learning and teaching and showcase innovative pedagogical practices The papers are organized in topical sections on the construct of student engagement and the applications of ICT emerging pedagogies through ICT applications of ICT in teaching and learning research case studies on ICT in engaged learning and finally three papers on open textbooks which address the current problems with conventional textbooks in Hong Kong

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