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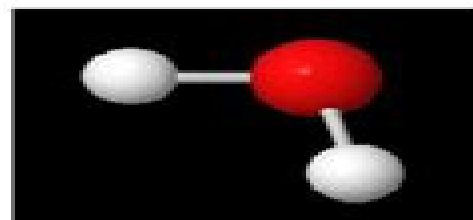
Student Exploration: Molecule Builder

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

**David Jonassen, Michael J.
Spector, Marcy Driscoll, M. David
Merrill, Jeroen van Merriënboer, Marcy
P. Driscoll**

Virtual Lab Exploration Guide:

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.

AI For Teachers Book 5: Science Education in the Age of AI DIZZY DAVIDSON, 2025-03-02 AI For Teachers Book 5 Science Education in the Age of AI Discover the future of science education with AI For Teachers Book 5 Science Education in the Age of AI. This insightful guide explores how artificial intelligence can revolutionize the way we teach and learn scientific concepts. Packed with real life stories, vivid illustrations and practical examples, this book is an indispensable resource for educators aiming to enhance their teaching practices and inspire the next generation of scientists. Inside this book, you'll find:

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Exploring the Universe: A Laboratory Guide for Astronomy Mike D. Reynolds, Michael E. Bakich, 2015-01-01 Astronomy is a fun and challenging science for students This manual is intended for one and two semester astronomy courses and uses hands on engaging activities to get students looking at the sky and developing a lifelong interest in astronomy

CASP CompTIA Advanced Security Practitioner Study Guide Michael Gregg, 2014-10-27 NOTE The exam this book covered CASP CompTIA Advanced Security Practitioner Exam CAS 002 was retired by CompTIA in 2019 and is no longer offered For coverage of the current exam CASP CompTIA Advanced Security Practitioner Exam CAS 003 Third Edition please look for the latest edition of this guide CASP CompTIA Advanced Security Practitioner Study Guide Exam CAS 003 Third Edition 9781119477648 CASP CompTIA Advanced Security Practitioner Study Guide CAS 002 is the updated edition of the bestselling book covering the CASP certification exam CompTIA approved this guide covers all of the CASP exam objectives with clear concise thorough information on crucial security topics With practical examples and insights drawn from real world experience the book is a comprehensive study resource with authoritative coverage of key concepts Exam highlights end of chapter reviews and a searchable glossary help with information retention and cutting edge exam prep software offers electronic flashcards and hundreds of bonus practice questions Additional hands on lab exercises mimic the exam s focus on

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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

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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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Provided by publisher The African American Student's Guide to STEM Careers Robert T. Palmer, Andrew T. Arroyo, Alonzo Flowers, 2016-12-05 This book comprehensively reviews the factors that facilitate access and success of Black students in STEM majors in higher education and it shares compelling testimonies from Black STEM professionals that will help inspire the next generation of Black scientists and engineers Most experts agree that America's success depends on having a workforce that is highly prepared in STEM areas Unfortunately students of color continue to be underrepresented in higher education and specifically in completing degrees and entering careers within the STEM fields This book supports African American students as well as all students who are interested in STEM careers providing information on the top colleges with STEM related programs particularly those that best support racially diverse students practical advice for preparing for entrance into STEM programs and inspirational stories of successful African Americans in STEM related careers Authored by three educators expert in the areas of academic development of African Americans and minorities STEM and higher education The African American Student's Guide to STEM Careers focuses on preparing Black students for STEM from K 12 through graduate school Readers will more fully appreciate the importance of STEM recognize why more Black students need to be more actively engaged in these disciplines and understand how to prepare Black students for success in STEM throughout the educational pipeline Handbook of Research on Educational Communications and Technology David Jonassen, Michael J. Spector, Marcy Driscoll, M. David Merrill, Jeroen van Merriënboer, Marcy P. Driscoll, 2008-09-25 First Published in 2008 Sponsored by the Association of Educational Communication and Technology AECT the third edition of this groundbreaking Handbook continues the mission of its predecessors to provide up to date summaries and syntheses of recent research pertinent to the educational uses of information and communication technologies In addition to updating this new edition has been expanded from forty one to fifty six chapters organized into the following six sections foundations strategies technologies models design and development and methodological issues In response to feedback from users of the second edition the following changes have been built into this edition More Comprehensive topical coverage has been expanded from forty one to fifty six chapters and includes many more chapters on technology than in previous editions Restructured Chapters this edition features shorter chapters with introductory abstracts keyword definitions and extended bibliographies More International more than 20% of the contributing authors and one of the volume editors are non American Theoretical Focus Part 1 provides expanded cross disciplinary theoretical coverage Methodological Focus an extended methodological chapter begins with a comprehensive overview of research methods followed by lengthy separately authored sections devoted to specific methods Research and Development Focus another extended chapter with lengthy separately authored sections covers educational technology research and development in different areas of investigation e g experimental methods to determine the effectiveness of instructional designs technology based instructional interventions in research research on instructional design models **Handbook of Research for Educational Communications and Technology**

David Jonassen, Marcy Driscoll, 2003-12-08 First Published in 2008 Routledge is an imprint of Taylor Francis an informa company

The Latino Student's Guide to STEM Careers Laura I. Rendón, Vijay Kanagala, 2017-09-08 This book is an essential resource that Latino 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 population. It focuses on the importance of STEM education for Latinos 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 students who have completed a STEM major that offer proof that Latinos can overcome life challenges to succeed in STEM fields.

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.

Ask, Explore, Write! Troy Hicks, Jeremy Hyler, Wilene Pangle, 2020-02-12 Discover how to effectively incorporate literacy instruction into your middle or high school science classroom with this practical book. You'll find creative inquiry-based tools to show you what it means to teach science with and through writing and strategies to help your students become young scientists who can use reading and writing to better understand their world. Troy Hicks, Jeremy Hyler, and Wilene Pangle share helpful examples of lessons and samples of students' work as well as innovative strategies you can use to improve students' abilities to read and write various types of scientific nonfiction, including argument essays, informational pieces, infographics, and more. As all three authors come to the work of science and literacy from different perspectives and backgrounds, the book offers unique and wide-ranging experiences that will inspire you and offer you insights into many aspects of the classroom, including when, why, and how reading and writing can work in the science lesson. Featured topics include Debates and the

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