chemistry educational websites

chemistry educational websites have revolutionized how students, educators, and science enthusiasts interact with chemistry concepts. These online platforms offer a wide range of resources, from interactive tutorials and engaging simulations to structured lesson plans and advanced reference materials. Whether you are preparing for an exam, seeking supplemental classroom materials, or simply fostering a passion for science, chemistry educational websites provide accessible, up-to-date, and comprehensive content for all levels. This article explores the importance of these websites, reviews top platforms, highlights essential features to look for, and offers guidance on choosing the right resource for your needs. By understanding what makes these websites effective, readers can unlock the full potential of digital chemistry education and enhance their learning experience.

Importance of Chemistry Educational Websites

Chemistry educational websites have become indispensable tools in modern science education. They bridge the gap between traditional textbooks and digital learning, catering to diverse learning styles and academic needs. Students can access a wealth of information anytime, anywhere, allowing for flexible, self-paced study. These platforms often provide interactive features and real-time feedback, fostering deeper understanding and engagement with complex chemistry concepts. For educators, these resources serve as valuable supplements to classroom instruction, enabling differentiated teaching and up-to-date content delivery. The global reach of chemistry educational websites also ensures that quality science education is accessible to learners regardless of geographic location.

Key Features of Quality Chemistry Educational Platforms

Not all chemistry educational websites offer the same level of quality or usability. The best platforms

share several essential features that enhance the learning experience and support effective knowledge acquisition. By understanding these attributes, users can make informed choices when selecting educational resources.

Comprehensive Content Coverage

Top chemistry educational websites deliver extensive coverage, spanning fundamental topics such as atomic structure, chemical bonding, thermodynamics, and organic chemistry. They should cater to various academic levels, from middle school and high school to college and advanced studies. This ensures that users can find suitable materials regardless of their current proficiency.

Interactive Learning Tools

Engaging learning tools are a hallmark of effective online chemistry platforms. These may include quizzes, virtual labs, simulations, and 3D molecular models. Interactive elements reinforce theoretical knowledge by allowing students to visualize reactions, manipulate variables, and observe outcomes in a virtual environment.

Up-to-Date and Reliable Information

Quality chemistry educational websites are regularly updated to reflect the latest curriculum standards and scientific discoveries. Accurate, peer-reviewed content is essential for building a solid foundation in chemistry and preparing students for assessments or standardized exams.

User-Friendly Interface

A clear, intuitive website layout is crucial for efficient navigation and an enjoyable learning experience. Platforms should be accessible on various devices, featuring responsive design, logical categorization, and easy-to-follow instructions.

Top Chemistry Educational Websites for Students and Teachers

A growing number of chemistry educational websites cater to a wide range of learning needs. Here are some of the most reputable and widely used platforms recognized for their quality content, interactivity, and educational value.

- Khan Academy – Offers free, comprehensive video tutorials and practice exercises covering basic to advanced chemistry topics.

- Royal Society of Chemistry (RSC) – Features a vast repository of articles, interactive activities, and teacher resources for all levels.
- American Chemical Society (ACS) Education – Provides curriculum support, experiments, and multimedia learning tools for students and educators.
- Periodic Videos – Delivers engaging chemistry video lessons, demonstrations, and periodic table explorations by expert instructors.
- PhET Interactive Simulations – Hosts a collection of interactive chemistry simulations for visual and hands-on learning.
- ChemCollective – Supplies virtual labs, scenario-based activities, and tutorials for high school and college chemistry.
- Chemguide – Offers clear, detailed explanations of fundamental and advanced chemistry concepts for self-study.

Benefits of Using Chemistry Educational Websites

The advantages of utilizing chemistry educational websites extend beyond simple content delivery. These platforms offer unique benefits that can significantly enhance the learning process and support educational outcomes.

Accessibility and Flexibility

Online chemistry platforms are accessible 24/7 from any location with internet connectivity. This flexibility enables users to tailor their study schedules, revisit challenging topics, and progress at their own pace, making learning more personalized and efficient.

Engagement through Interactivity

Interactive quizzes, simulations, and multimedia content on chemistry educational websites foster active participation. These tools help maintain learner interest, encourage experimentation, and facilitate better retention of complex information.

Support for Diverse Learning Styles

Different students absorb information in different ways. Chemistry educational websites often incorporate varied formats—such as videos, animations, text explanations, and hands-on activities—to accommodate visual, auditory, and kinesthetic learners alike.

Global Collaboration and Community Building

Many platforms feature forums, discussion boards, and collaborative projects, allowing learners and educators from around the world to share ideas, solve problems, and build a sense of scientific community.

How to Choose the Best Chemistry Educational Website

With numerous options available, selecting the most suitable chemistry educational website requires careful consideration. Users should evaluate platforms based on several key criteria to ensure the chosen resource aligns with their academic goals.

Curriculum Alignment

The chosen website should align with the relevant curriculum standards—whether local, national, or international. This guarantees that the content is appropriate for the intended level and meets examination requirements.

Depth and Breadth of Resources

A strong chemistry educational platform offers both breadth (coverage of all core topics) and depth (detailed explanations, advanced materials for deeper exploration). This ensures learners can build foundational knowledge and progress to more complex concepts.

Quality of User Experience

Look for websites with an intuitive interface, minimal distractions, and clear navigation. A positive user experience facilitates consistent engagement and reduces frustration during study sessions.

Cost and Accessibility

While many chemistry educational websites are free, some require subscriptions or offer premium content. Consider budget, access restrictions, and available trial periods when making a selection.

Tips for Maximizing Learning on Chemistry Websites

To gain the most from chemistry educational websites, users should adopt effective study strategies and make full use of available resources. Below are practical tips for optimizing online chemistry learning.

- Set clear learning goals and track your progress using website tools or personal study plans.
- Engage actively with interactive features, such as quizzes, simulations, and discussion forums.
- Take regular notes and summarize key concepts to reinforce understanding.
- Combine online study with hands-on experiments when possible to connect theory with practice.
- Seek out supplementary materials, such as videos and infographics, for complex topics.
- Review material regularly to reinforce memory and prepare for assessments.

Future Trends in Chemistry Education Online

The landscape of chemistry educational websites continues to evolve, influenced by technological advancements and changing educational needs. Emerging trends include the integration of artificial intelligence for personalized learning, expanded use of virtual and augmented reality for immersive lab experiences, and greater emphasis on global collaboration. As digital tools become increasingly sophisticated, chemistry educational websites will further democratize access to high-quality science education and inspire the next generation of scientists and innovators.

Q: What are chemistry educational websites?

A: Chemistry educational websites are online platforms that provide learning resources, interactive tools, tutorials, and reference materials to support the study and teaching of chemistry at various academic levels.

Q: Why are chemistry educational websites important for students?

A: These websites offer accessible, up-to-date content, interactive learning experiences, and flexible study options, making it easier for students to understand complex chemistry concepts and improve academic performance.

Q: What features should I look for in a quality chemistry educational website?

A: Key features include comprehensive content coverage, interactive tools (such as simulations and quizzes), reliable and current information, user-friendly design, and alignment with curriculum standards.

Q: Are there free chemistry educational websites available?

A: Yes, many reputable chemistry educational websites offer free resources, including Khan Academy, PhET Interactive Simulations, and ChemCollective.

Q: How do interactive simulations help in learning chemistry?

A: Interactive simulations allow users to visualize chemical processes, experiment with variables, and observe real-time outcomes, making abstract concepts more tangible and easier to understand.

Q: Can chemistry educational websites help with exam preparation?

A: Absolutely. These platforms often provide practice questions, mock exams, and detailed explanations, helping students prepare effectively for standardized tests and school assessments.

Q: Are chemistry educational websites suitable for teachers?

A: Yes, teachers can use these websites to access lesson plans, teaching aids, multimedia content, and up-to-date scientific information to enhance classroom instruction.

Q: How can I make the most out of chemistry educational websites?

A: Set clear learning goals, engage regularly with interactive features, participate in community forums, and combine online learning with practical experiments for comprehensive understanding.

Q: What are some of the best chemistry educational websites?

A: Notable examples include Khan Academy, Royal Society of Chemistry, American Chemical Society Education, Periodic Videos, PhET Interactive Simulations, and ChemCollective.

Q: Will chemistry educational websites continue to evolve in the future?

A: Yes, ongoing advancements such as artificial intelligence, virtual reality, and global collaboration

will make chemistry educational websites even more interactive, personalized, and accessible.

Chemistry Educational Websites

chemistry educational websites: Chemistry Education Javier García-Martínez, Elena Serrano-Torregrosa, 2015-05-04 Winner of the CHOICE Outstanding Academic Title 2017 Award This comprehensive collection of top-level contributions provides a thorough review of the vibrant field of chemistry education. Highly-experienced chemistry professors and education experts cover the latest developments in chemistry learning and teaching, as well as the pivotal role of chemistry for shaping a more sustainable future. Adopting a practice-oriented approach, the current challenges and opportunities posed by chemistry education are critically discussed, highlighting the pitfalls that can occur in teaching chemistry and how to circumvent them. The main topics discussed include best practices, project-based education, blended learning and the role of technology, including e-learning, and science visualization. Hands-on recommendations on how to optimally implement innovative strategies of teaching chemistry at university and high-school levels make this book an essential resource for anybody interested in either teaching or learning chemistry more effectively, from experience chemistry professors to secondary school teachers, from educators with no formal training in didactics to frustrated chemistry students.

chemistry educational websites: Chemistry in Primetime and Online National Research Council, Division on Earth and Life Studies, Board on Chemical Sciences and Technology, Chemical Sciences Roundtable, 2011-08-01 It is critical that we increase public knowledge and understanding of science and technology issues through formal and informal learning for the United States to maintain its competitive edge in today's global economy. Since most Americans learn about science outside of school, we must take advantage of opportunities to present chemistry content on television, the Internet, in museums, and in other informal educational settings. In May 2010, the National Academies' Chemical Sciences Roundtable held a workshop to examine how the public obtains scientific information informally and to discuss methods that chemists can use to improve and expand efforts to reach a general, nontechnical audience. Workshop participants included chemical practitioners (e.g., graduate students, postdocs, professors, administrators); experts on informal learning; public and private funding organizations; science writers, bloggers, publishers, and university communications officers; and television and Internet content producers. Chemistry in Primetime and Online is a factual summary of what occurred in that workshop. Chemistry in Primetime and Online examines science content, especially chemistry, in various informal educational settings. It explores means of measuring recognition and retention of the information presented in various media formats and settings. Although the report does not provide any conclusions or recommendations about needs and future directions, it does discuss the need for chemists to connect more with professional writers, artists, or videographers, who know how to communicate with and interest general audiences. It also emphasizes the importance of formal education in setting the stage for informal interactions with chemistry and chemists.

chemistry educational websites: *Innovations in Chemistry Education: Strategies for Engaged and Effective Learning* Dr. S.Vincent De Paul, 2024-11-14 Innovations in Chemistry Education: Strategies for Engaged and Effective Learning is a comprehensive guide that explores innovative

strategies for improving chemistry education at all levels. The book addresses key challenges faced by chemistry educators today and offers effective solutions to engage students and promote deeper learning. The book is organized into thematic sections that cover a range of topics including active learning techniques, the integration of technology such as virtual labs and simulations, and inclusive teaching practices. It discusses the use of contemporary tools such as AI and machine learning to personalize learning experiences, as well as strategies for fostering collaboration and critical thinking. Each chapter presents actionable strategies and examples, making this book a valuable resource for educators who seek to transform their teaching methods and provide students with a more interactive and engaging learning experience. Designed for both experienced and new educators, as well as students and researchers in the field of chemistry education, this book provides insights into how to adapt chemistry teaching to modern needs. It offers a vision for a more inclusive, technology-driven, and student-centered approach to teaching chemistry that prepares learners for the challenges of tomorrow's scientific landscape.

chemistry educational websites: *Teaching Science Online* Dietmar Kennepohl, 2023-07-03 With the increasing focus on science education, growing attention is being paid to how science is taught. Educators in science and science-related disciplines are recognizing that distance delivery opens up new opportunities for delivering information, providing interactivity, collaborative opportunities and feedback, as well as for increasing access for students. This book presents the guidance of expert science educators from the US and from around the globe. They describe key concepts, delivery modes and emerging technologies, and offer models of practice. The book places particular emphasis on experimentation, lab and field work as they are fundamentally part of the education in most scientific disciplines. Chapters include:* Discipline methodology and teaching strategies in the specific areas of physics, biology, chemistry and earth sciences.* An overview of the important and appropriate learning technologies (ICTs) for each major science.* Best practices for establishing and maintaining a successful course online.* Insights and tips for handling practical components like laboratories and field work.* Coverage of breaking topics, including MOOCs, learning analytics, open educational resources and m-learning.* Strategies for engaging your students online.

chemistry educational websites: Chemical Education: Towards Research-based Practice J.K. Gilbert, Onno de Jong, Rosária Justi, David F. Treagust, Jan H. van Driel, 2006-03-11 Chemical education is essential to everybody because it deals with ideas that play major roles in personal, social, and economic decisions. This book is based on three principles: that all aspects of chemical education should be associated with research; that the development of opportunities for chemical education should be both a continuous process and be linked to research; and that the professional development of all those associated with chemical education should make extensive and diverse use of that research. It is intended for: pre-service and practising chemistry teachers and lecturers; chemistry teacher educators; chemical education researchers; the designers and managers of formal chemical curricula; informal chemical educators; authors of textbooks and curriculum support materials; practising chemists and chemical technologists. It addresses: the relation between chemistry and chemical education; curricula for chemical education; teaching and learning about chemical compounds and chemical change; the development of teachers; the development of chemical education as a field of enquiry. This is mainly done in respect of the full range of formal education contexts (schools, universities, vocational colleges) but also in respect of informal education contexts (books, science centres and museums).

chemistry educational websites: Innovative Methods of Teaching and Learning Chemistry in Higher Education Ingo Eilks, Bill Byers, 2015-11-06 Two recent initiatives from the EU, namely the Bologna Process and the Lisbon Agenda are likely to have a major influence on European Higher Education. It seems unlikely that traditional teaching approaches, which supported the elitist system of the past, will promote the mobility, widened participation and culture of 'life-long learning' that will provide the foundations for a future knowledge-based economy. There is therefore a clear need to seek new approaches to support the changes which will inevitably occur. The European Chemistry

Thematic Network (ECTN) is a network of some 160 university chemistry departments from throughout the EU as well as a number of National Chemical Societies (including the RSC) which provides a discussion forum for all aspects of higher education in chemistry. This handbook is a result of one of their working groups, who identified and collated good practice with respect to innovative methods in Higher Level Chemistry Education. It provides a comprehensive overview of innovations in university chemistry teaching from a broad European perspective. The generation of this book through a European Network, with major national chemical societies and a large number of chemistry departments as members make the book unique. The wide variety of scholars who have contributed to the book, make it interesting and invaluable reading for both new and experienced chemistry lecturers throughout the EU and beyond. The book is aimed at chemistry education at universities and other higher level institutions and at all academic staff and anyone interested in the teaching of chemistry at the tertiary level. Although newly appointed teaching staff are a clear target for the book, the innovative aspects of the topics covered are likely to prove interesting to all committed chemistry lecturers.

chemistry educational websites: Research in Chemistry Education Liliana Mammino, Jan Apotheker, 2021-05-17 This volume emphasizes the role of chemical education for development and, in particular, for sustainable development in Africa, by sharing experiences among specialists across the African continent and with specialists from other continents. It considers all areas and levels of chemistry education, gives specific attention to known major challenges and encourages explorations of novel approaches. The chapters in this book describe new teaching approaches, approach-explorations and in-class activities, analyse educational challenges and possible ways of addressing them and explore cross-discipline possibilities and their potential benefits for chemistry education. This makes the volume an up to date compendium for chemistry educators and educational researchers worldwide.

chemistry educational websites: Handbook of Research on Inequities in Online Education During Global Crises Kyei-Blankson, Lydia, Blankson, Joseph, Ntuli, Esther, 2021-05-07 In response to the COVID-19 pandemic, many educational institutions implemented social distancing interventions such as initiating closure, developing plans for employees to work remotely, and transitioning teaching and learning from face-to-face classrooms to online environments. The abrupt switch to online teaching and learning, for the most part, has been a massive change for administration, faculty, and students at traditional brick-and-mortar universities and colleges as concerns regarding the pedagogical soundness of this mode of delivery remain among some stakeholders. Not only that, but the switch has also revealed the inequities in the system when it comes to the types of students universities serve. It is important as institutions move forward with online instruction that consideration be made about all students and what policies and strategies need to be put into place to help support and meet the needs of all constituents now or when unprecedented situations arise. The only way this can be done is by documenting the experiences through the eyes of faculty who were at the frontline of providing instruction and advising services to students. The Handbook of Research on Inequities in Online Education During Global Crises brings to light the struggles faculty and students faced as they were required to switch to online education during the global COVID-19 health crisis. This crisis has revealed inequities in the educational system as well as the specific effects of inequities when it comes to learning online, and the chapters in this book provide information to help institutions be better prepared for online education or remote learning in the future. While highlighting topics such as new educational trends, remote instruction, diversity in education, and teaching and learning in a pandemic, this book is ideal for in-service and preservice teachers, administrators, teacher educators, practitioners, stakeholders, researchers, academicians, and students interested in the inequalities within the educational systems and the new policies and strategies put in place with online education to combat these issues and support the needs of all diverse student populations.

chemistry educational websites: Relevant Chemistry Education Ingo Eilks, Avi Hofstein, 2015-07-22 This book is aimed at chemistry teachers, teacher educators, chemistry education

researchers, and all those who are interested in increasing the relevance of chemistry teaching and learning as well as students' perception of it. The book consists of 20 chapters. Each chapter focuses on a certain issue related to the relevance of chemistry education. These chapters are based on a recently suggested model of the relevance of science education, encompassing individual, societal, and vocational relevance, its present and future implications, as well as its intrinsic and extrinsic aspects. “Two highly distinguished chemical educators, Ingo Eilks and AviHofstein, have brought together 40 internationally renowned colleagues from 16 countries to offer an authoritative view of chemistry teaching today. Between them, the authors, in 20 chapters, give an exceptional description of the current state of chemical education and signpost the future in both research and in the classroom. There is special emphasis on the many attempts to enthuse students with an understanding of the central science, chemistry, which will be helped by having an appreciation of the role of the science in today’s world. Themes which transcend all education such as collaborative work, communication skills, attitudes, inquiry learning and teaching, and problem solving are covered in detail and used in the context of teaching modern chemistry. The book is divided into four parts which describe the individual, the societal, the vocational and economic, and the non-formal dimensions and the editors bring all the disparate leads into a coherent narrative, that will be highly satisfying to experienced and new researchers and to teachers with the daunting task of teaching such an intellectually demanding subject. Just a brief glance at the index and the references will convince anyone interested in chemical education that this book is well worth studying; it is scholarly and readable and has tackled the most important issues in chemical education today and in the foreseeable future.” – Professor David Waddington, Emeritus Professor in Chemistry Education, University of York, United Kingdom

chemistry educational websites: Handbook of College Science Teaching Joel J. Mintzes, 2006 The Handbook offers models of teaching and learning that go beyond the typical lecture-laboratory format and provides rationales for new practices in the college classroom. It is ideal for graduate teaching assistants, senior faculty and graduate coordinators, and mid-career professors in search of reinvigoration.

chemistry educational websites: Alternative Solvents for Green Chemistry Francesca Kerton, Ray Marriott, 2015-11-09 Everyone is becoming more environmentally conscious and therefore, chemical processes are being developed with their environmental burden in mind. This also means that more traditional chemical methods are being replaced with new innovations and this includes new solvents. Solvents are everywhere, but how necessary are they? They are used in most areas including synthetic chemistry, analytical chemistry, pharmaceutical production and processing, the food and flavour industry and the materials and coatings sectors. However, the principles of green chemistry guide us to use less of them, or to use safer, more environmentally friendly solvents if they are essential. Therefore, we should always ask ourselves, do we really need a solvent? Green chemistry, as a relatively new sub-discipline, is a rapidly growing field of research. Alternative solvents - including supercritical fluids and room temperature ionic liquids - form a significant portion of research in green chemistry. This is in part due to the hazards of many conventional solvents (e.g. toxicity and flammability) and the significant contribution that solvents make to the waste generated in many chemical processes. Solvents are important in analytical chemistry, product purification, extraction and separation technologies, and also in the modification of materials. Therefore, in order to make chemistry more sustainable in these fields, a knowledge of alternative, greener solvents is important. This book, which is part of a green chemistry series, uses examples that tie in with the 12 principles of green chemistry e.g. atom efficient reactions in benign solvents and processing of renewable chemicals/materials in green solvents. Readers get an overview of the many different kinds of solvents, written in such a way to make the book appropriate to newcomers to the field and prepare them for the 'green choices' available. The book also removes some of the mystique associated with 'alternative solvent' choices and includes information on solvents in different fields of chemistry such as analytical and materials chemistry in addition to catalysis and synthesis. The latest research developments, not covered elsewhere, are included such

as switchable solvents and biosolvents. Also, some important areas that are often overlooked are described such as naturally sourced solvents (including ethanol and ethyl lactate) and liquid polymers (including poly(ethyleneglycol) and poly(dimethylsiloxane)). As well as these additional alternative solvents being included, the book takes a more general approach to solvents, not just focusing on the use of solvents in synthetic chemistry. Applications of solvents in areas such as analysis are overviewed in addition to the more widely recognised uses of alternative solvents in organic synthesis. Unfortunately, as the book shows, there is no universal green solvent and readers must ascertain their best options based on prior chemistry, cost, environmental benefits and other factors. It is important to try and minimize the number of solvent changes in a chemical process and therefore, the importance of solvents in product purification, extraction and separation technologies are highlighted. The book is aimed at newcomers to the field whether research students beginning investigations towards their thesis or industrial researchers curious to find out if an alternative solvent would be suitable in their work.

chemistry educational websites: *Digital Learning and Teaching in Chemistry* Yehudit Dori, Courtney Ngai, Gabriela Szteinberg, 2023-07-12 Education is always evolving, and most recently has shifted to increased online or remote learning. Digital Learning and Teaching in Chemistry compiles the established and emerging trends in this field, specifically within the context of learning and teaching in chemistry. This book shares insights about five major themes: best practices for teaching and learning digitally, digital learning platforms, virtual visualisation and laboratory to promote learning in science, digital assessment, and building communities of learners and educators. The authors are chemistry instructors and researchers from nine countries, contributing an international perspective on digital learning and teaching in chemistry. While the chapters in this book span a wide variety of topics, as a whole, they focus on using technology and digital platforms as a method for supporting inclusive and meaningful learning. The best practices and recommendations shared by the authors are highly relevant for modern chemistry education, as teaching and learning through digital methods is likely to persist. Furthermore, teaching chemistry digitally has the potential to bring greater equity to the field of chemistry education in terms of who has access to quality learning, and this book will contribute to that goal. This book will be essential reading for those working in chemical education and teaching. Yehudit Judy Dori is internationally recognised, formerly Dean of the Faculty of Education of Science and Technology at the Technion Israel Institute of Technology and won the 2020 NARST Distinguished Contributions to Science Education through Research Award–DCRA for her exceptional research contributions. Courtney Ngai and Gabriela Szteinberg are passionate researchers and practitioners in the education field. Courtney Ngai is the Associate Director of the Office of Undergraduate Research and Artistry at Colorado State University. Gabriela Szteinberg serves as Assistant Dean and Academic Coordinator for the College of Arts and Sciences at Washington University in St. Louis.

chemistry educational websites: Teaching Chemistry in Higher Education Michael Seery, Claire Mc Donnell, 2019-07-01 Teaching Chemistry in Higher Education celebrates the contributions of Professor Tina Overton to the scholarship and practice of teaching and learning in chemistry education. Leading educators in United Kingdom, Ireland, and Australia—three countries where Tina has had enormous impact and influence—have contributed chapters on innovative approaches that are well-established in their own practice. Each chapter introduces the key education literature underpinning the approach being described. Rationales are discussed in the context of attributes and learning outcomes desirable in modern chemistry curricula. True to Tina’s personal philosophy, chapters offer pragmatic and useful guidance on the implementation of innovative teaching approaches, drawing from the authors’ experience of their own practice and evaluations of their implementation. Each chapter also offers key guidance points for implementation in readers’ own settings so as to maximise their adaptability. Chapters are supplemented with further reading and supplementary materials on the book’s website (overtonfestschrift.wordpress.com). Chapter topics include innovative approaches in facilitating group work, problem solving, context- and problem-based learning, embedding transferable skills, and laboratory education—all themes

relating to the scholarly interests of Professor Tina Overton. About the Editors: Michael Seery is Professor of Chemistry Education at the University of Edinburgh, and is Editor of Chemistry Education Research and Practice. Claire Mc Donnell is Assistant Head of School of Chemical and Pharmaceutical Sciences at Technological University Dublin. Cover Art: Christopher Armstrong, University of Hull

chemistry educational websites: Nonmetals, Second Edition Monica Halka, Brian Nordstrom, 2019-12-01 Praise for the previous edition: ...a solid addition to a high school and public library science collection. Recommended.—Library Media Connection Materials that are poor conductors of electricity are generally considered nonmetals. One important use of nonmetals is the ability to insulate against current flow. The Earth's atmosphere is composed of nonmetallic elements, but lightning can break down the electron bonds and allow huge voltages to make their way to the ground. Water in its pure form is nonmetallic, though it almost always contains impurities called electrolytes that allow for an electric field. With an exploration of the benefits and challenges to society, health, and the environment, Nonmetals, Second Edition provides readers with new developments in the research of nonmetals, including where they came from, how they fit into our current technological society, and where they may lead us. Written in an easy-to-read format, this newly updated full-color resource discusses new developments and dilemmas; past, present, and future uses of nonmetals in science and technology; and much more. Nonmetals explored in this title include hydrogen, carbon, nitrogen, phosphorus, oxygen, sulfur, and selenium.

chemistry educational websites: Online Teaching at Its Best Linda B. Nilson, Ludwika A. Goodson, 2021-06-16 Bring pedagogy and cognitive science to online learning environments Online Teaching at Its Best: Merging Instructional Design with Teaching and Learning Research, 2nd Edition, is the scholarly resource for online learning that faculty, instructional designers, and administrators have raved about. This book addresses course design, teaching, and student motivation across the continuum of online teaching modes—remote, hybrid, hyflex, and fully online—integrating these with pedagogical and cognitive science, and grounding its recommendations in the latest research. The book will help you design or redesign your courses to ensure strong course alignment and effective student learning in any of these teaching modes. Its emphasis on evidence-based practices makes this one of the most scholarly books of its kind on the market today. This new edition features significant new content including more active learning formats for small groups across the online teaching continuum, strategies and tools for scripting and recording effective micro-lectures, ways to integrate quiz items within micro-lectures, more conferencing software and techniques to add interactivity, and a guide for rapid transition from face-to-face to online teaching. You'll also find updated examples, references, and quotes to reflect more evolved technology. Adopt new pedagogical techniques designed specifically for remote, hybrid, hyflex, and fully online learning environments Ensure strong course alignment and effective student learning for all these modes of instruction Increase student retention, build necessary support structures, and train faculty more effectively Integrate research-based course design and cognitive psychology into graduate or undergraduate programs Distance is no barrier to a great education. Online Teaching at Its Best provides practical, real-world advice grounded in educational and psychological science to help online instructors, instructional designers, and administrators deliver an exceptional learning experience even under emergency conditions.

chemistry educational websites: Teaching Science in Elementary and Middle School Cory A. Buxton, Eugene F. Provenzo, 2007-02-26 ′I believe the experiments in this text can be well integrated into any science education course and help create an environment of exploration. - Willis Walter, Jr., Florida AM University ′This textbook should be a companion of all elementary and middle school pre-service and in-service teachers who are interested in educating students of different abilities and backgrounds′ - Benjamin C. Ngwudike, Jackson State University ′Science is almost always thought of as a solitary content area practiced by lone practitioners in isolated laboratories. The reality is that science is highly dependent upon culture and history. This textbook meaningfully presents these relationships in a fashion accessible to college level teacher candidates′ - Claudia A.

Balach, Slippery Rock University of Pennsylvania Teaching Science in Elementary and Middle School: A Cognitive and Cultural Approach is an introductory science curriculum and methods textbook for pre-service teachers in primary and middle schools. The primary purpose of the book is to provide an introduction to the teaching of science with an emphasis on guiding the pre-service teacher toward: - conceptual understanding of core standards-based science content from the four major scientific disciplines - application of scientific methods and processes of inquiry to the learning of these science concepts - development of scientific language that is both expressive and constitutive in the formation of scientific reasoning - the ability to guide learners through numerous core scientific experiments that help to illuminate items 1-3 - evaluation of social and cultural factors that shape and influence both science and science education - analysis of the local context in which science must be understood (as well as the global context) - synthesis of science as interrelated with other aspects of the world and how this idea can be taught to students through integrated and thematic instruction. The approach throughout is clear and practical, and is designed to foster reflective teaching rooted in research and theory. Teaching Science in Elementary and Middle School: A Cognitive and Cultural Approach is a synthesis of current knowledge in science education, cognition and culture. The authors provide a text that fosters the development of teachers who feel prepared to engage their students in rich science learning experiences.

chemistry educational websites: *Improving Assessment and Evaluation Strategies on Online Learning* Surjani Wonorahardjo, Sari Karmina, Habiddin, 2022-06-10 ICLI is an annual International Conference on Learning Innovation (ICLI) hosted byUniversitas Negeri Malang, Indonesia in collaboration with the Islamic Development Bank (IsDB) and Indonesian Consortium for Learning Innovation Research (ICLIR) as well as Univerisiti Teknologi MARA Cawangan Perlis, Malaysia serving as co-organizer this year. The conference aims to gather researchers, practitioners, students, experts, consultants, teachers and lecturers to share their insights and experiences on research not only in constructing innovations in learning but also the knowledge of learner's capability. The learners who are characterized as creative and competent by having the ability to understand what they have learned and capable of taking initiative and thinking critically. In addition, ICLI is organized on the basis of the trend in the 21st century, categorized by the increasing complexity of technology and the emergence of a corporate restructuring movement. This book is the proceeding of ICLI 2021, containing a selection of articles presented at this conference as the output of the activity. Various topics around education are covered in this book and some literature studies around specific topics on learning and education are covered as well. This proceeding book will be beneficial to students, scholars, and practitioners who have a deep concern in education. It is also futuristic with a lot of practical insights for students, faculty, and practitioners, and also a description of the Indonesian educational system in today's era.

chemistry educational websites: *Halogens and Noble Gases, Second Edition* Monica Halka, Brian Nordstrom, 2019-12-01 In spite of their adjacency in the periodic table, halogens and nonmetals have very different properties. Halogens are among the most chemically reactive elements in the periodic table, exhibiting a diverse chemistry in terms of the large numbers of compounds they can form. On the other hand, noble gases are the least chemically reactive elements. In fact, before the 1960s, chemists referred to these elements as inert gases, because it was believed that they exhibited no chemistry whatsoever. Providing the basics of these elements, including their role in history and some of the important scientists involved in their discovery, this newly updated, full-color resource features up-to-date scientific understanding in a clear and accessible format. Halogens and Noble Gases, Second Edition examines the ways humans use halogens and noble gases and the resulting benefits and challenges to society, health, and the environment. Fluorine, chlorine, bromine, iodine, helium, and krypton are covered in this eBook, along with the fundamentals of chemistry and physics as well as possible future developments in halogen and noble gas science and its applications.

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Software Engineering mirrors the modern taxonomy of computer science and software engineering as described by the Association for Computing Machinery (ACM) and the IEEE Computer Society (IEEE-CS). Written by established leading experts and influential young researchers, the first volume of this popular handbook examines the elements involved in designing and implementing software, new areas in which computers are being used, and ways to solve computing problems. The book also explores our current understanding of software engineering and its effect on the practice of software development and the education of software professionals. Like the second volume, this first volume describes what occurs in research laboratories, educational institutions, and public and private organizations to advance the effective development and use of computers and computing in today's world. Research-level survey articles provide deep insights into the computing discipline, enabling readers to understand the principles and practices that drive computing education, research, and development in the twenty-first century.

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