

Introductory Chemistry An Active Learning Approach Hybrid

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Explore foundational concepts with an Introductory Chemistry course designed for active learning. This hybrid chemistry course offers a flexible, engaging path for chemistry for beginners, integrating both in-person and online components to enhance understanding. Perfect for those seeking a modern blended learning chemistry experience.

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Introductory Chemistry: An Active Learning Approach

Teach the course your way with INTRODUCTORY CHEMISTRY, 6e. Available in multiple formats (standard paperbound edition, loose-leaf edition, digital MindTap Reader edition, and a hybrid edition, which includes OWLv2), this text allows you to tailor the order of chapters to accommodate your particular needs, not only by presenting topics so they never assume prior knowledge, but also by including any necessary preview or review information needed to learn that topic. The authors' question-and-answer presentation, which allows students to actively learn chemistry while studying an assignment, is reflected in three words of advice and encouragement that are repeated throughout the book: Learn It Now! This edition integrates new technological resources, coached problems in a two-column format, and enhanced art and photography, all of which dovetail with the authors' active learning approach. Even more flexibility is provided in the new MindTap Reader edition, an electronic version of the text that features interactivity, integrated media, additional self-test problems, and clickable key terms and answer buttons for worked examples. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Introductory Chemistry

Learn chemistry actively while studying assignments with INTRODUCTORY CHEMISTRY. The authors' question-and-answer format is reflected in three words of advice and encouragement that are repeated throughout the book: Learn It Now! Each chapter includes an Everyday Chemistry section that illustrates how chemistry is applied in daily life. This edition integrates new features such as technological resources, coached problems, and enhanced art and photography, all of which dovetail with the authors' active learning approach.

Introductory Chemistry

BASICS OF INTRODUCTORY CHEMISTRY WITH MATH REVIEW (and its accompanying access to the CengageNOW personalized learning system) offers the perfect blend of tools for success! This innovative text takes an active learning approach towards chemistry that allows you to test your knowledge as you learn the material. With this book in your pocket, success in chemistry is sure to follow!

Introductory Chemistry

Reflecting Cengage Learning's commitment to offering flexible teaching solutions and value for students and instructors, this hybrid version of **INTRODUCTORY CHEMISTRY**, 6e features the instructional presentation found in the printed text while delivering all the end-of chapter exercises online in OWLv2.. Access to OWLv2 is included with every new hybrid text, giving your students an interactive learning experience with the convenience of a text that is both brief and affordable. To provide maximum teaching flexibility and make it easy for you to teach chapters in the order you prefer, the authors include necessary preview or review information with each topic's coverage. Even more flexibility is provided in the new edition by the included MindTap Reader, an electronic version of the text that features interactivity, integrated media, and additional algebra coverage. Known for its question-and-answer presentation that allows students to actively learn chemistry while studying an assignment, this edition integrates new features such as outstanding technological resources, coached problems in a two-column format, and enhanced art and photography, all of which dovetail with the authors' active learning approach.

Basics of Introductory Chemistry

Learn chemistry actively while studying assignments with **INTRODUCTORY CHEMISTRY**. The authors' question-and-answer format is reflected in three words of advice and encouragement that are repeated throughout the book: **Learn It Now!** Each chapter includes an **Everyday Chemistry** section that illustrates how chemistry is applied in daily life. This edition integrates new features such as technological resources, coached problems, and enhanced art and photography, all of which dovetail with the authors' active learning approach.

Introductory Chemistry

INTRODUCTORY CHEMISTRY: AN ACTIVE LEARNING APPROACH gives you the tools you need to teach the course your way. The authors provide a question-and-answer presentation that allows students to actively learn chemistry while studying an assignment. This approach is reflected in three words of advice and encouragement that are repeated throughout the book: **Learn It Now!** As with previous editions, this text allows you to tailor the order of chapters to accommodate your particular needs through two flexible formats a standard paperbound edition and loose-leaf edition. This flexibility is achieved not only by carefully writing each topic so it never assumes prior knowledge, but also by including any and all necessary preview or review information needed to learn that topic. The fourth edition integrates new features such as technological resources, coached problems, and enhanced art and photography, all of which dovetail with the authors' active learning approach. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Introductory Chemistry

Never HIGHLIGHT a Book Again! Includes all testable terms, concepts, persons, places, and events. **Cram101 Just the FACTS101 studyguides** gives all of the outlines, highlights, and quizzes for your textbook with optional online comprehensive practice tests. Only Cram101 is Textbook Specific. Accompanies: 9781305079250. This item is printed on demand.

Introductory Chemistry, Hybrid Edition (with OWLv2 Printed Access Card)

Never HIGHLIGHT a Book Again! Virtually all of the testable terms, concepts, persons, places, and events from the textbook are included. **Cram101 Just the FACTS101 studyguides** give all of the outlines, highlights, notes, and quizzes for your textbook with optional online comprehensive practice tests. Only Cram101 is Textbook Specific. Accompany: 9780495558477 .

Cengage Advantage Books: Introductory Chemistry

Ebook: Introductory Chemistry: An Atoms First Approach

Cengage Advantage Books: Introductory Chemistry: An Active Learning Approach

A Unified Curriculum. Written to Stick. Introductory Chemistry was developed to take advantage of a digital environment within Sapling Learning to create a more visual, interactive experience for students learning introductory chemistry and to provide a wealth of resources to support various teaching styles. Both the print and digital resources were designed from the ground up and in parallel to create a flexible teaching and learning experience. Learn It Kevin Revell understands the student audience and knows how to draw them in with an accessible narrative. By using simple, straightforward language, Revell presents Introductory Chemistry in a way that is welcoming and attainable for all students. Throughout both the text and digital tools, material is broken into achievable steps and students are given the support, guidance and reinforcement necessary to successfully learn Introductory Chemistry concepts. Know it Introductory Chemistry introduces students to chemistry with a uniquely engaging writing style that not only promotes understanding but uses devices like storytelling and analogies to also help students learn at a deeper level and retain concepts. Interactive activities give students a way to work through online tutorials for targeted, hands-on practice with the most difficult concepts in the course and provide a foundation for conceptual understanding and problem solving skills. Moving from comprehension to retention, students solidify their understanding of material to the point where they just "know it". This in turn helps build on concepts as they move forward through the course and continue to grow their ability to solve more complex problems. Own It Written and developed as an integrated print and digital resource, Introductory Chemistry was designed to serve as a teaching and learning tool to meet instructors and students where they are today and provide support and tools tailored to various teaching styles. Instructors interested in incorporating active learning into their classrooms will find resources to make this an easy transition. Those who already subscribe to active learning techniques will find tools to complement their efforts. Students will also find support for diverse learning styles and can take advantage of learning through the printed narrative and pedagogy, eBook and interactive digital tools, or a combination of both. Students can choose to access the content in the learning environment that best fits their needs: the printed narrative and pedagogy, the eBook and interactive digital tools, the video lecture modules, or a combination. The content and approach of each environment includes the full Introductory Chemistry experience.

Bndl: Introductory Chemistry: Active Learning Approach

This book constitutes the refereed proceedings of the 7th International Conference on Hybrid Learning, ICHL 2014, held in Shanghai, China, in August 2014. The 31 papers presented were carefully reviewed and selected from 90 submissions. The selected papers cover various aspects on hybrid learning, computer supported collaborative learning, experiences in hybrid learning, improved flexibility on learning processes and the pedagogical and psychological issues of hybrid learning.

Acp Introductory Chemistry

The notion of a flipped classroom draws on such concepts as active learning, student engagement, hybrid course design, and course podcasting. The value of a flipped class is in the repurposing of class time into a workshop where students can inquire about lecture content, test their skills in applying knowledge, and interact with one another in hands-on activities. The Handbook of Research on Active Learning and the Flipped Classroom Model in the Digital Age highlights current research on the latest trends in education with an emphasis on the technologies being used to meet learning objectives. Focusing on teaching strategies, learner engagement, student interaction, and digital tools for learning, this handbook of research is an essential resource for current and future educators, instructional designers, IT specialists, school administrators, and researchers in the field of education.

STUDYGUIDE FOR INTRODUCTORY CH

This book focuses on the core areas of computing and their applications in the real world. Presenting papers from the Computing Conference 2020 covers a diverse range of research areas, describing various detailed techniques that have been developed and implemented. The Computing Conference 2020, which provided a venue for academic and industry practitioners to share new ideas and development experiences, attracted a total of 514 submissions from pioneering academic researchers, scientists, industrial engineers and students from around the globe. Following a double-blind, peer-review process, 160 papers (including 15 poster papers) were selected to be included in these proceedings. Featuring

state-of-the-art intelligent methods and techniques for solving real-world problems, the book is a valuable resource and will inspire further research and technological improvements in this important area.

Outlines and Highlights for Introductory Chemistry

Traditional classroom learning environments are quickly becoming a thing of the past as research continues to support the integration of learning outside of a structured school environment. Blended learning, in particular, offers the best of both worlds, combining classroom learning with mobile and web-based learning environments. Blended Learning: Concepts, Methodologies, Tools, and Applications explores emerging trends, case studies, and digital tools for hybrid learning in modern educational settings. Focusing on the latest technological innovations as well as effective pedagogical practice, this critical multi-volume set is a comprehensive resource for instructional designers, educators, administrators, and graduate-level students in the field of education.

Introductory Chemistry

Ideal for the instructor who plans to use OWL, this Seventh Edition of Zumdahl and DeCoste's best-selling INTRODUCTORY CHEMISTRY: A FOUNDATION is now offered in this unique, value-based, paperbound edition. It includes access to OWL Online Web Learning (with eBook), along with all the best-selling content of INTRODUCTORY CHEMISTRY (with the exception of the end-of-chapter questions, which are included in OWL), giving students a lower price than they would pay if they purchased a used book and OWL separately. Designed to make chemistry interesting, understandable, and relevant for beginning students, this hybrid edition offers an expanded focus on problem solving, including a new section that shows students how to think their way through a problem using a creative, flexible approach based on understanding of the key ideas of chemistry. In addition, in most of the text's quantitative examples, the authors model the questions students should be asking themselves while solving problems. Known for its unique focus on conceptual learning, Zumdahl/DeCoste's text motivates students by connecting chemical principles to real-life experiences in chapter-opening discussions and Chemistry in Focus boxes. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Ebook: Introductory Chemistry: An Atoms First Approach

Introductory Chemistry: A Conceptual Focus teaches students to understand the core concepts of chemistry and to apply this understanding to solve quantitative and qualitative problems. The text consistently engages students in active learning through embedded Workpatches, abundant visual depictions, Practice Problems, and attention-getting applications, built right into the narrative. Through the authors' friendly, direct approach and the focus on comprehension of core concepts, students gain confidence in their ability, retain more of what they learn, and are freed from dependence on rote mathematical manipulation.

Introductory Chemistry

The seventh edition of this superb lab manual offers 36 class-tested experiments, suitable for introductory, preparatory, and health science chemistry courses and texts, including INTRODUCTORY CHEMISTRY: AN ACTIVE LEARNING APPROACH, Fourth Edition by Cracolice and Peters. Experiments in this lab manual teach students to collect and analyze experimental data and provide them with a strong foundation for further course work in general chemistry. This edition offers instructors a wide variety of experiments to customize their laboratory program, including many microscale experiments. All experiments can be completed in a three-hour laboratory period. As in the Sixth Edition, there are Work Pages for each experiment as well as Report Sheets for students to take notes and record experimental data and results, which facilitate instructor grading of experiments. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Custom Introductory Chemistry: an Active Learning Approach CH 1

The Eighth Edition of Zumdahl and DeCoste's best-selling INTRODUCTORY CHEMISTRY: A FOUNDATION combines enhanced problem-solving structure with substantial pedagogy to enable students to become strong independent problem solvers in the introductory course and beyond. Capturing

student interest through early coverage of chemical reactions, accessible explanations and visualizations, and an emphasis on everyday applications, the authors explain chemical concepts by starting with the basics, using symbols or diagrams, and conclude by encouraging students to test their own understanding of the solution. This systematic approach has already helped hundreds of thousands of students master chemical concepts and develop problem-solving skills. The book is known for its focus on conceptual learning and for the way it motivates students by connecting chemical principles to real-life experiences in chapter-opening discussions and "Chemistry in Focus" boxes.

Hybrid Learning Theory and Practice

Organic chemistry courses are often difficult for students, and instructors are constantly seeking new ways to improve student learning. This volume details active learning strategies implemented at a variety of institutional settings, including small and large; private and public; liberal arts and technical; and highly selective and open-enrollment institutions. Readers will find detailed descriptions of methods and materials, in addition to data supporting analyses of the effectiveness of reported pedagogies.

Handbook of Research on Active Learning and the Flipped Classroom Model in the Digital Age

Now available at a new low price as part of Cengage Advantage Books and in two flexible formats--a standard paperbound edition and loose-leaf edition--this best-selling textbook for courses in introductory chemistry allows professors to tailor the order of chapters to accommodate their particular needs. The authors have achieved this modularity not only by carefully writing each topic so it never assumes prior knowledge, but also by including any and all necessary preview or review information needed to learn that topic. New lead author Dr. Mark Cracolice, Director for the Center of Teaching Excellence at the University of Montana and chemical education specialist, has added current and relevant applications and has infused the text with original pedagogical elements. Cracolice has also seamlessly integrated the text with the extensive media-based teaching aids available to create a unified package for this edition.

Intelligent Computing

This substantially revised and expanded new edition of the bestselling textbook, addresses the difficulties that can arise with the mathematics that underpins the study of symmetry, and acknowledges that group theory can be a complex concept for students to grasp. Written in a clear, concise manner, the author introduces a series of programmes that help students learn at their own pace and enable them to understand the subject fully. Readers are taken through a series of carefully constructed exercises, designed to simplify the mathematics and give them a full understanding of how this relates to the chemistry. This second edition contains a new chapter on the projection operator method. This is used to calculate the form of the normal modes of vibration of a molecule and the normalised wave functions of hybrid orbitals or molecular orbitals. The features of this book include: * A concise, gentle introduction to symmetry and group theory * Takes a programmed learning approach * New material on projection operators, and the calculation of normal modes of vibration and normalised wave functions of orbitals. This book is suitable for all students of chemistry taking a first course in symmetry and group theory.

Blended Learning: Concepts, Methodologies, Tools, and Applications

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.

Introductory Chemistry: A Foundation, Hybrid

This volume constitutes the refereed proceedings of the 13th International Conference on Hybrid Artificial Intelligent Systems, HAIS 2018, held in Oviedo, Spain, in June 2018. The 62 full papers published in this volume were carefully reviewed and selected from 104 submissions. They are organized in the following topical sections: Neurocomputing, fuzzy systems, rough sets, evolutionary algorithms, Agents and Multiagent Systems, and alike.

Introductory Chemistry

This book explores evidence-based practice in college science teaching. It is grounded in disciplinary education research by practicing scientists who have chosen to take Wieman's (2014) challenge seriously, and to investigate claims about the efficacy of alternative strategies in college science teaching. In editing this book, we have chosen to showcase outstanding cases of exemplary practice supported by solid evidence, and to include practitioners who offer models of teaching and learning that meet the high standards of the scientific disciplines. Our intention is to let these distinguished scientists speak for themselves and to offer authentic guidance to those who seek models of excellence. Our primary audience consists of the thousands of dedicated faculty and graduate students who teach undergraduate science at community and technical colleges, 4-year liberal arts institutions, comprehensive regional campuses, and flagship research universities. In keeping with Wieman's challenge, our primary focus has been on identifying classroom practices that encourage and support meaningful learning and conceptual understanding in the natural sciences. The content is structured as follows: after an Introduction based on Constructivist Learning Theory (Section I), the practices we explore are Eliciting Ideas and Encouraging Reflection (Section II); Using Clickers to Engage Students (Section III); Supporting Peer Interaction through Small Group Activities (Section IV); Restructuring Curriculum and Instruction (Section V); Rethinking the Physical Environment (Section VI); Enhancing Understanding with Technology (Section VII), and Assessing Understanding (Section VIII). The book's final section (IX) is devoted to Professional Issues facing college and university faculty who choose to adopt active learning in their courses. The common feature underlying all of the strategies described in this book is their emphasis on actively engaging students who seek to make sense of natural objects and events. Many of the strategies we highlight emerge from a constructivist view of learning that has gained widespread acceptance in recent years. In this view, learners make sense of the world by forging connections between new ideas and those that are part of their existing knowledge base. For most students, that knowledge base is riddled with a host of naïve notions, misconceptions and alternative conceptions they have acquired throughout their lives. To a considerable extent, the job of the teacher is to coax out these ideas; to help students understand how their ideas differ from the scientifically accepted view; to assist as students restructure and reconcile their newly acquired knowledge; and to provide opportunities for students to evaluate what they have learned and apply it in novel circumstances. Clearly, this prescription demands far more than most college and university scientists have been prepared for.

Introduction to Chemical Principles: A Laboratory Approach

Continuous professional development of chemistry teachers is essential for any effective chemistry teaching due to the evolving nature of the subject matter and its instructional techniques. Professional development aims to keep chemistry teaching up-to-date and to make it more meaningful, more educationally effective, and better aligned to current requirements. Presenting models and examples of professional development for chemistry teachers, from pre-service preparation through to continuous professional development, the authors walk the reader through theory and practice. The authors discuss factors which affect successful professional development, such as workload, availability and time constraints, and consider how we maintain the life-long learning of chemistry teachers. With a solid grounding in the literature and drawing on many examples from the authors' rich experiences, this book enables researchers and educators to better understand teachers' roles in effective chemistry education and the importance of their professional development.

Introductory Chemistry

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 Szeinberg 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 Szeinberg serves as Assistant Dean and Academic Coordinator for the College of Arts and Sciences at Washington University in St. Louis.

Active Learning in Organic Chemistry

Changing student profiles and the increasing availability of mainstream and specialized learning technologies are stretching the traditional face-to-face models of teaching and learning in higher education. Institutions, too, are facing far-reaching systemic changes which are placing strains on existing resources and physical infrastructure and calling into question traditional ways of teaching through lectures and tutorials. And, with an ever-increasing scrutiny on teaching and teachers' accountability for positive educational outcomes, the call for closer attention to learning, teaching and, most especially, to the design and delivery of the curriculum is given increasing relevance and importance. Research provides strong evidence of the potential for technologies to facilitate not only cognition and learning but also to become integral components in the redesign of current curriculum models. Some Universities and individual academics have moved along this pathway, developing new and innovative curriculum, blending pedagogies and technologies to suit their circumstances. Yet, there are others, unsure of the possibilities, the opportunities and constraints in these changing times. Curriculum Models for the 21st Century gives insights into how teaching and learning can be done differently. The focus is on a whole of curriculum approach, looking at theoretical models and examples of practice which capitalize on the potential of technologies to deliver variations and alternatives to the more traditional lecture-based model of University teaching.

Acp Introductory Chemistry: Anactive Learning Approach Ch 1

Problem solving is central to the teaching and learning of chemistry at secondary, tertiary and post-tertiary levels of education, opening to students and professional chemists alike a whole new world for analysing data, looking for patterns and making deductions. As an important higher-order thinking skill, problem solving also constitutes a major research field in science education. Relevant education research is an ongoing process, with recent developments occurring not only in the area of quantitative/computational problems, but also in qualitative problem solving. The following situations are considered, some general, others with a focus on specific areas of chemistry: quantitative problems, qualitative reasoning, metacognition and resource activation, deconstructing the problem-solving process, an overview of the working memory hypothesis, reasoning with the electron-pushing formalism, scaffolding organic synthesis skills, spectroscopy for structural characterization in organic chemistry, enzyme kinetics, problem solving in the academic chemistry laboratory, chemistry problem-solving in context, team-based/active learning, technology for molecular representations, IR spectra simulation, and computational quantum chemistry tools. The book concludes with methodological and epistemological issues in problem solving research and other perspectives in problem solving in chemistry. With a foreword by George Bodner.

Introductory Chemistry

Bringing together a wide collection of ideas, reviews, analyses and new research on particulate and structural concepts of matter, Concepts of Matter in Science Education informs practice from pre-school through graduate school learning and teaching and aims to inspire progress in science education. The expert contributors offer a range of reviews and critical analyses of related literature and in-depth analy-

sis of specific issues, as well as new research. Among the themes covered are learning progressions for teaching a particle model of matter, the mental models of both students and teachers of the particulate nature of matter, educational technology, chemical reactions and chemical phenomena, chemical structure and bonding, quantum chemistry and the history and philosophy of science relating to the particulate nature of matter. The book will benefit a wide audience including classroom practitioners and student teachers at every educational level, teacher educators and researchers in science education. "If gaining the precise meaning in particulate terms of what is solid, what is liquid, and that air is a gas, were that simple, we would not be confronted with another book which, while suggesting new approaches to teaching these topics, confirms they are still very difficult for students to learn". Peter Fensham, Emeritus Professor Monash University, Adjunct Professor QUT (from the foreword to this book)

Molecular Symmetry and Group Theory

If mobile technologies are to be effectively used in education, how do we best implement sustainable mobile solutions for teaching and learning? The aim of this handbook is to support educators and policy makers who are investing in innovations in digital education to develop effective and sustainable mobile learning solutions for higher education environments. Authors from sixteen countries across the Asia-Pacific region have collaborated to share their experiences with developing and implementing mobile learning initiatives. These projects focus on a variety of aspects of mobile learning innovation, from the trial adoption of existing social media platforms on mobile devices and the development of specialised applications or mobile learning systems, to the large-scale, interuniversity implementation of technologies and pedagogies to support mobile learning. Each chapter addresses challenges and solutions at one or more levels of mobile learning innovation within the education system, encompassing the student perspective, the educator perspective, technical processes, policies and organisational strategy, and leadership. The book also offers a unique perspective on the integration of mobile learning innovations within the educational, political and cultural environments of Asia-Pacific countries.

Teaching Science Online

Hybrid Artificial Intelligent Systems