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Sciences for the IB MYP 4&5: By Concept

MYP by Concept *Hodder Education*

Develop your skills to become an inquiring learner; ensure you navigate the MYP framework with confidence using a concept-driven and assessment-focused approach to Sciences presented in global contexts. · Develop conceptual understanding with key MYP concepts and related concepts at the heart of each chapter. · Learn by asking questions for a statement of inquiry in each chapter. · Prepare for every aspect of assessment using support and tasks designed by experienced educators. · Understand how to extend your learning through research projects and interdisciplinary opportunities. · Think internationally with chapters and concepts set in global contexts.

Innovative Teaching By Creative Tools And Teacher's Role

N.A. Educreation Publishing

Through this book, I thought of sharing my experience with my fellow teachers in a day-to-day language, so that it can reach remote places irrespective of their level of English proficiency. If even little

of my experience can bring some change to teaching-learning process, it will improve educational standard of a class of any school. I shared some teaching activities which I used and found very engaging in a class of any size and nature. You can find numerous activities on the internet but not together which can guide a teacher throughout the teaching week; second, not all teachers have access all the time to the internet, so it will help them to start and practice in right direction to become a successful teacher. If you are a beginner and have decided to make teaching as your career, or you just want to explore, this book is a proper guide to overcoming the challenges. Are you excited or nervous? Do not be either. This book is a guaranteed help to make your beginning lucky.

Empowering tools for today's educators

"Explore & Experience 21st Century Teaching Skills" *Notion Press*

The book, being the first of its kind, is targeted to the present day Indian teachers & educators who are to equip themselves with the latest trends in teaching using the latest tools available in order to impart knowledge in new ways and keep reinventing themselves. This book contains most of the relevant & free tools, collected by scavenging the web meticulously, that are of immense use for today's tech loving teachers... Teachers/Educators are also guided over extremely interesting and unusual sites that are potentially information rich which can also be suggested to their students. The book also contains the Draft - CODE OF PROFESSIONAL ETHICS FOR SCHOOL TEACHERS along with TEACHER'S OATH - a document

developed by a committee appointed by NCTE (National Council for Teacher Education) with a preface by the then Chairperson (NCTE), Prof. Mohd. Akhtar Siddiqui. The book is aptly dedicated to all those teaching professionals & educators who are struggling to create a change in the Indian teaching scenario

Common Core Mathematics Standards and Implementing Digital Technologies *IGI Global*

Standards in the American education system are traditionally handled on a state-by-state basis, which can differ significantly from one region of the country to the next. Recently, initiatives proposed at the federal level have attempted to bridge this gap. Common Core Mathematics Standards and Implementing Digital Technologies provides a critical discussion of educational standards in mathematics and how communication technologies can support the implementation of common practices across state lines. Leaders in the fields of mathematics education and educational technology will find an examination of the Common Core State Standards in Mathematics through concrete examples, current research, and best practices for teaching all students regardless of grade level or regional location. This book is part of the Advances in Educational Technologies and Instructional Design series collection.

Teaching Secondary Physics 3rd Edition *Hodder Education*

Enhance your teaching with expert advice and support for Key Stages 3 and 4 Physics from the Teaching Secondary series - the trusted teacher's guide for NQTs, non-specialists and experienced teachers. Written in association with

ASE, this updated edition provides best practice teaching strategies from academic experts and practising teachers. - Refresh your subject knowledge, whatever your level of expertise - Gain strategies for delivering the big ideas of science using suggested teaching sequences - Engage students and develop their understanding with practical activities for each topic - Enrich your lessons and extend knowledge beyond the curriculum with enhancement ideas - Improve key skills with opportunities to introduce mathematics and scientific literacy highlighted throughout - Support the use of technology with ideas for online tasks, video suggestions and guidance on using cutting-edge software - Place science in context; this book highlights where you can apply science theory to real-life scenarios, as well as how the content can be used to introduce different STEM careers Also available: Teaching Secondary Chemistry, Teaching Secondary Biology

Ciência em contexto

propostas para construir espaços-tempos de ciência na escola *Editora Na Raiz*

Este livro discute propostas didáticas que visam favorecer o desenvolvimento de visões mais complexas sobre a ciência e o seu papel na sociedade atual[1]. Partimos de uma concepção de que os estudantes são agentes em suas realidades e que o ensino de ciências está articulado a diferentes contextos socioculturais, envolvendo compreender, analisar e se posicionar diante de questões da ciência e da sociedade (Bencze et al., 2020; Hodson, 2018; Sadler, 2009; Sasseron, 2019; Stroupe et al., 2019). Nesse tipo de concepção, a

contextualização do ensino de ciências oferece potencialidades às quais buscamos explorar como alternativa para a ciência na escola. Na primeira parte do livro (capítulos 1, 2 e 3), trazemos uma discussão sobre como compreendemos o processo de contextualização do ensino. No capítulo 1, partimos de desafios enfrentados nas aulas de ciências e apontamos algumas alternativas que nos parecem promissoras para a educação científica. No capítulo 2, iniciamos a discussão sobre essas alternativas, em nível curricular, apresentando a proposta de 'contextualização a partir da interação'. No capítulo 3, apresentamos um exemplo concreto de contextualização em sala de aula, por meio de um relato de experiência com estudantes do Ensino Médio. Na segunda parte do livro (capítulos 4 ao 20), apresentamos um conjunto de sequências de atividades que visam ampliar as oportunidades de contextualização do ensino de ciências. A construção dessas sequências é resultado de um movimento de diferentes grupos de pesquisa que têm buscado alternativas ao ensino asséptico e descontextualizado das ciências. São sequências que foram desenvolvidas por pesquisadores e estudantes de programas de pós-graduação do campo de Educação em Ciências.

Introduction to Matter

(linear Programme: 225 Frames).

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Simulation and Learning

A Model-Centered Approach *Springer Science & Business Media*

The main idea of this book is that to comprehend the instructional potential of simulation and to design effective simulation-based learning environments, one has to consider both what happens inside the computer and inside the students' minds. The framework adopted to do this is model-centered learning, in which simulation is seen as particularly

effective when learning requires a restructuring of the individual mental models of the students, as in conceptual change. Mental models are by themselves simulations, and thus simulation models can extend our biological capacity to carry out simulative reasoning. For this reason, recent approaches in cognitive science like embodied cognition and the extended mind hypothesis are also considered in the book.. A conceptual model called the "epistemic simulation cycle" is proposed as a blueprint for the comprehension of the cognitive activities involved in simulation-based learning and for instructional design.

Technology Integration for Meaningful Classroom Use: A Standards-Based Approach *Cengage Learning*

Classroom technology changes constantly. That's why TECHNOLOGY INTEGRATION FOR MEANINGFUL CLASSROOM USE: A STANDARDS-BASED APPROACH, 3rd Edition, is such a useful resource. Using the principles of self-directed learning as its foundation, it provides current and prospective teachers with the framework for developing, modeling and teaching skills and knowledge necessary to integrate technology in educational environments. Students learn how to evaluate and reflect on professional practice in order to make informed, confident decisions that will support technology-enabled learning throughout their careers. The only educational technology text organized around the 2017 Standards for Educators released by the International Society for Technology in Education (ISTE), this text equips your students to successfully navigate the ever-changing arena of technology integration in the

classroom. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Next Generation Science Standards

For States, By States *National Academies Press*

Next Generation Science Standards identifies the science all K-12 students should know. These new standards are based on the National Research Council's A Framework for K-12 Science Education. The National Research Council, the National Science Teachers Association, the American Association for the Advancement of Science, and Achieve have partnered to create standards through a collaborative state-led process. The standards are rich in content and practice and arranged in a coherent manner across disciplines and grades to provide all students an internationally benchmarked science education. The print version of Next Generation Science Standards complements the nextgenscience.org website and: Provides an authoritative offline reference to the standards when creating lesson plans Arranged by grade level and by core discipline, making information quick and easy to find Printed in full color with a lay-flat spiral binding Allows for bookmarking, highlighting, and annotating

Geek Mom

Projects, Tips, and Adventures for Moms and Their 21st-Century Families *Potter Craft*

It's fast becoming a geek world out there, and all moms need to show off their tech smarts and superhero-like skills in order to keep their savvy kids

entertained and engaged. *Geek Mom: Projects, Tips, and Adventures for Moms and Their 21st-Century Families* explores the many fun and interesting ways that digital-age parents and kids can get their geek on together. Imaginative ideas for all ages and budgets include thrifty Halloween costumes, homemade lava lamps, hobbit feasts, and magical role-playing games. There are even projects for moms to try when they have a few precious moments alone. With six sections spanning everything from home-science experiments to superheroes, this comprehensive handbook from the editors of *Wired.com's* popular *GeekMom* blog is packed with ideas guaranteed to inspire a love of learning and discovery. Along the way, parents will also find important tips on topics such as determining safe online communities for children, organizing a home learning center, and encouraging girls to love science. Being geeky is all about exploring the world with endless curiosity. *Geek Mom* is your invitation to introducing the same sense of wonder and imagination to the next generation.

Financial & Managerial Accounting for MBAs

Mystery of the Periodic Table *Bethlehem Books*

Leads the reader on a delightful and absorbing journey through the ages, on the trail of the elements of the Periodic Table as we know them today. He introduces the young reader to people like Von Helmholtz, Boyle, Stahl, Priestly, Cavendish, Lavoisier, and many others, all incredibly diverse in personality and approach, who have laid the groundwork for a search that is still unfolding to this day. The first part of Wiker's witty and

solidly instructive presentation is most suitable to middle school age, while the later chapters are designed for ages 12-13 and up, with a final chapter somewhat more advanced. Illustrated by Jeanne Bendick and Ted Schluenderfritz.

Visual Quantum Mechanics

Selected Topics with Computer-Generated Animations of Quantum-Mechanical Phenomena *Springer Science & Business Media*

"Visual Quantum Mechanics" uses the computer-generated animations found on the accompanying material on Springer Extras to introduce, motivate, and illustrate the concepts explained in the book. While there are other books on the market that use Mathematica or Maple to teach quantum mechanics, this book differs in that the text describes the mathematical and physical ideas of quantum mechanics in the conventional manner. There is no special emphasis on computational physics or requirement that the reader know a symbolic computation package. Despite the presentation of rather advanced topics, the book requires only calculus, making complicated results more comprehensible via visualization. The material on Springer Extras provides easy access to more than 300 digital movies, animated illustrations, and interactive pictures. This book along with its extra online materials forms a complete introductory course on spinless particles in one and two dimensions.

Visualizing Chemistry

The Progress and Promise of Advanced Chemical Imaging *National Academies Press*

Scientists and engineers have long relied

on the power of imaging techniques to help see objects invisible to the naked eye, and thus, to advance scientific knowledge. These experts are constantly pushing the limits of technology in pursuit of chemical imaging—the ability to visualize molecular structures and chemical composition in time and space as actual events unfold—from the smallest dimension of a biological system to the widest expanse of a distant galaxy. Chemical imaging has a variety of applications for almost every facet of our daily lives, ranging from medical diagnosis and treatment to the study and design of material properties in new products. In addition to highlighting advances in chemical imaging that could have the greatest impact on critical problems in science and technology, Visualizing Chemistry reviews the current state of chemical imaging technology, identifies promising future developments and their applications, and suggests a research and educational agenda to enable breakthrough improvements.

Simulations and Student Learning *University of Toronto Press*

The book underlines the value of simulation-based education as an approach that fosters authentic engagement and deep learning.

Overcoming Students' Misconceptions in Science

Strategies and Perspectives from Malaysia *Springer*

This book discusses the importance of identifying and addressing misconceptions for the successful teaching and learning of science across all levels of science education from elementary school to high school. It

suggests teaching approaches based on research data to address students' common misconceptions. Detailed descriptions of how these instructional approaches can be incorporated into teaching and learning science are also included. The science education literature extensively documents the findings of studies about students' misconceptions or alternative conceptions about various science concepts. Furthermore, some of the studies involve systematic approaches to not only creating but also implementing instructional programs to reduce the incidence of these misconceptions among high school science students. These studies, however, are largely unavailable to classroom practitioners, partly because they are usually found in various science education journals that teachers have no time to refer to or are not readily available to them. In response, this book offers an essential and easily accessible guide.

Policy Implications of Greenhouse Warming

Mitigation, Adaptation, and the Science Base *National Academies Press*

Global warming continues to gain importance on the international agenda and calls for action are heightening. Yet, there is still controversy over what must be done and what is needed to proceed. Policy Implications of Greenhouse Warming describes the information necessary to make decisions about global warming resulting from atmospheric releases of radiatively active trace gases. The conclusions and recommendations include some unexpected results. The distinguished authoring committee provides specific advice for U.S. policy and addresses the

need for an international response to potential greenhouse warming. It offers a realistic view of gaps in the scientific understanding of greenhouse warming and how much effort and expense might be required to produce definitive answers. The book presents methods for assessing options to reduce emissions of greenhouse gases into the atmosphere, offset emissions, and assist humans and unmanaged systems of plants and animals to adjust to the consequences of global warming.

The Atomic Theory

Chemistry 2e

Electrons

In the final part of a three-book series, Ellie the Electron adventures into the subatomic world. Simple rhyming sentences and vibrant science pictures make it easy for even a toddler to begin to understand the basics of chemistry. Learn about some of the most fundamental concepts in science BEFORE the social pressure and intimidation of formal schooling sets in. Spark scientific curiosity in kids of all ages!

Teaching at Its Best

A Research-Based Resource for College Instructors *John Wiley & Sons*

Teaching at Its Best This third edition of the best-selling handbook offers faculty at all levels an essential toolbox of hundreds of practical teaching techniques, formats, classroom activities, and exercises, all of which can be implemented immediately. This thoroughly revised edition includes the newest portrait of the Millennial student; current research from cognitive

psychology; a focus on outcomes maps; the latest legal options on copyright issues; and how to best use new technology including wikis, blogs, podcasts, vodcasts, and clickers. Entirely new chapters include subjects such as matching teaching methods with learning outcomes, inquiry-guided learning, and using visuals to teach, and new sections address Felder and Silverman's Index of Learning Styles, SCALE-UP classrooms, multiple true-false test items, and much more. Praise for the Third Edition of *Teaching at Its Best*—veterans as well as novices—will profit from reading *Teaching at Its Best*, for it provides both theory and practical suggestions for handling all of the problems one encounters in teaching classes varying in size, ability, and motivation."—Wilbert McKeachie, Department of Psychology, University of Michigan, and coauthor, *McKeachie's Teaching Tips* This new edition of Dr. Nilson's book, with its completely updated material and several new topics, is an even more powerful collection of ideas and tools than the last. What a great resource, especially for beginning teachers but also for us veterans!"—L. Dee Fink, author, *Creating Significant Learning Experiences* This third edition of *Teaching at Its Best* is successful at weaving the latest research on teaching and learning into what was already a thorough exploration of each topic. New information on how we learn, how students develop, and innovations in instructional strategies complement the solid foundation established in the first two editions."—Marilla D. Svinicki, Department of Psychology, The University of Texas, Austin, and coauthor, *McKeachie's Teaching Tips*

Chemical Misconceptions

Prevention, Diagnosis and Cure *Royal Society of Chemistry*

Chemistry is a conceptual subject and, in order to explain many of the concepts, teachers use models to describe the microscopic world and relate it to the macroscopic properties of matter. This can lead to problems, as a student's every-day experiences of the world and use of language can contradict the ideas put forward in chemical science. These titles have been designed to help tackle this issue of misconceptions. Part 1 deals with the theory, by including information on some of the key alternative conceptions that have been uncovered by research; ideas about a variety of teaching approaches that may prevent students acquiring some common alternative conceptions; and general ideas for assisting students with the development of appropriate scientific conceptions. Part 2 provides strategies for dealing with some of the misconceptions that students have, by including ready to use classroom resources including copies of probes that can be used to identify ideas held by students; some specific exercises aimed at challenging some of the alternative ideas; and classroom activities that will help students to construct the chemical concepts required by the curriculum. Used together, these two books will provide a good theoretical underpinning of the fundamentals of chemistry. Trialled in schools throughout the UK, they are suitable for teaching ages 11-18.

Physics, Volume 2 *John Wiley & Sons*

Written for the full year or three term Calculus-based University Physics course for science and engineering majors, the

publication of the first edition of *Physics* in 1960 launched the modern era of *Physics* textbooks. It was a new paradigm at the time and continues to be the dominant model for all texts. *Physics* is the most realistic option for schools looking to teach a more demanding course. The entirety of Volume 2 of the 5th edition has been edited to clarify conceptual development in light of recent findings of physics education research. End-of-chapter problem sets are thoroughly overhauled, new problems are added, outdated references are deleted, and new short-answer conceptual questions are added.

Physics

The First Science *Rutgers University Press*

Today's physics textbooks have become encyclopedic, offering students dry discussions, rote formulas, and exercises with little relation to the real world. *Physics: The First Science* takes a different approach by offering uniquely accessible, student-friendly explanations, historical and philosophical perspectives and mathematics in easy-to-comprehend dialogue. It emphasizes the unity of physics and its place as the basis for all science. Examples and worked solutions are scattered throughout the narrative to help increase understanding. Students are tested and challenged at the end of each chapter with questions ranging from a guided-review designed to mirror the examples, to problems, reasoning skill building exercises that encourage students to analyze unfamiliar situations, and interactive simulations developed at the University of Colorado. With their experience instructing both students and

teachers of physics for decades, Peter Lindenfeld and Suzanne White Brahmia have developed an algebra-based physics book with features to help readers see the physics in their lives. Students will welcome the engaging style, condensed format, and economical price.

Introductory Chemistry *Cengage Learning*

The Seventh Edition of Zumdahl and DeCoste's best-selling *INTRODUCTORY CHEMISTRY: A FOUNDATION* that 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 step-by-step 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. The Seventh Edition now adds a questioning pedagogy to in-text examples to help students learn what questions they should be asking themselves while solving problems, offers a revamped art program to better serve visual learners, and includes a significant number of revised end-of-

chapter questions. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Scientific Inquiry and Nature of Science

Implications for Teaching, Learning, and Teacher Education *Springer Science & Business Media*

This book synthesizes current literature and research on scientific inquiry and the nature of science in K-12 instruction. Its presentation of the distinctions and overlaps of inquiry and nature of science as instructional outcomes are unique in contemporary literature. Researchers and teachers will find the text interesting as it carefully explores the subtleties and challenges of designing curriculum and instruction for integrating inquiry and nature of science.

Chemistry: An Atoms First Approach *Cengage Learning*

Steve and Susan Zumdahl's texts focus on helping students build critical thinking skills through the process of becoming independent problem-solvers. They help students learn to think like a chemists so they can apply the problem solving process to all aspects of their lives. In CHEMISTRY: AN ATOMS FIRST APPROACH, the Zumdahls use a meaningful approach that begins with the atom and proceeds through the concept of molecules, structure, and bonding, to more complex materials and their properties. Because this approach differs from what most students have experienced in high school courses, it encourages them to focus on conceptual learning early in the course, rather than relying on memorization and a plug and

chug method of problem solving that even the best students can fall back on when confronted with familiar material. The atoms first organization provides an opportunity for students to use the tools of critical thinkers: to ask questions, to apply rules and models and to evaluate outcomes. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

The SAGE Encyclopedia of Social Science Research Methods *SAGE*

"The first encyclopedia to cover inclusively both quantitative and qualitative research approaches, this set provides clear explanations of 1,000 methodologies, avoiding mathematical equations when possible with liberal cross-referencing and bibliographies. Each volume includes a list of works cited, and the third contains a comprehensive index and lists of person names, organizations, books, tests, software, major concepts, surveys, and methodologies."--"Reference that rocks," American Libraries, May 2005.

College Physics for AP® Courses

Part 1: Chapters 1-17

The College Physics for AP(R) Courses text is designed to engage students in their exploration of physics and help them apply these concepts to the Advanced Placement(R) test. This book is Learning List-approved for AP(R) Physics courses. The text and images in this book are grayscale.

Ambitious Science Teaching *Harvard Education Press*

2018 Outstanding Academic Title, Choice Ambitious Science Teaching outlines a powerful framework for science teaching

to ensure that instruction is rigorous and equitable for students from all backgrounds. The practices presented in the book are being used in schools and districts that seek to improve science teaching at scale, and a wide range of science subjects and grade levels are represented. The book is organized around four sets of core teaching practices: planning for engagement with big ideas; eliciting student thinking; supporting changes in students' thinking; and drawing together evidence-based explanations. Discussion of each practice includes tools and routines that teachers can use to support students' participation, transcripts of actual student-teacher dialogue and descriptions of teachers' thinking as it unfolds, and examples of student work. The book also provides explicit guidance for "opportunity to learn" strategies that can help scaffold the participation of diverse students. Since the success of these practices depends so heavily on discourse among students, *Ambitious Science Teaching* includes chapters on productive classroom talk. Science-specific skills such as modeling and scientific argument are also covered. Drawing on the emerging research on core teaching practices and their extensive work with preservice and in-service teachers, *Ambitious Science Teaching* presents a coherent and aligned set of resources for educators striving to meet the considerable challenges that have been set for them.

University Physics

University Physics is designed for the two- or three-semester calculus-based physics course. The text has been developed to meet the scope and sequence of most university physics

courses and provides a foundation for a career in mathematics, science, or engineering. The book provides an important opportunity for students to learn the core concepts of physics and understand how those concepts apply to their lives and to the world around them. Due to the comprehensive nature of the material, we are offering the book in three volumes for flexibility and efficiency. Coverage and Scope Our University Physics textbook adheres to the scope and sequence of most two- and three-semester physics courses nationwide. We have worked to make physics interesting and accessible to students while maintaining the mathematical rigor inherent in the subject. With this objective in mind, the content of this textbook has been developed and arranged to provide a logical progression from fundamental to more advanced concepts, building upon what students have already learned and emphasizing connections between topics and between theory and applications. The goal of each section is to enable students not just to recognize concepts, but to work with them in ways that will be useful in later courses and future careers. The organization and pedagogical features were developed and vetted with feedback from science educators dedicated to the project.

VOLUME III Unit 1: Optics Chapter 1: The Nature of Light Chapter 2: Geometric Optics and Image Formation Chapter 3: Interference Chapter 4: Diffraction Unit 2: Modern Physics Chapter 5: Relativity Chapter 6: Photons and Matter Waves Chapter 7: Quantum Mechanics Chapter 8: Atomic Structure Chapter 9: Condensed Matter Physics Chapter 10: Nuclear Physics Chapter 11: Particle Physics and Cosmology

Chemistry 2e

Physics for Scientists and Engineers, Volume 2 *Cengage Learning*

Achieve success in your physics course by making the most of what PHYSICS FOR SCIENTISTS AND ENGINEERS has to offer. From a host of in-text features to a range of outstanding technology resources, you'll have everything you need to understand the natural forces and principles of physics. Throughout every chapter, the authors have built in a wide range of examples, exercises, and illustrations that will help you understand the laws of physics AND succeed in your course! Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Chemistry

"Chemistry is designed for the two-semester general chemistry course. For many students, this course provides the foundation to a career in chemistry, while for others, this may be their only college-level science course. As such, this textbook provides an important opportunity for students to learn the core concepts of chemistry and understand how those concepts apply to their lives and the world around them.

The text has been developed to meet the scope and sequence of most general chemistry courses. At the same time, the book includes a number of innovative features designed to enhance student learning. A strength of Chemistry is that instructors can customize the book, adapting it to the approach that works best in their classroom."--Openstax College website.

Merrill Chemistry *McGraw-Hill/Glencoe*

Subject-specific instructional methods and activities *JAI Press Incorporated*

Researchers in education and geography embed analysis of instructional methods and learning activities such as lecture, discussion, and simulation into the context of purposes and goals of specific subject matter. They respond to the dilemma that teacher education textbooks and much research on teaching

Higher-Order Thinking Skills to Develop 21st Century Learners *Teacher Created Materials*

Uses practical and research-based approaches to improve students' higher-order thinking skills and includes strategies for differentiating higher-order thinking skills and developing them in English language learners.

POGIL Activities for AP* Chemistry