

AP Chemistry Lesson Plans

2/7/11 – 2/11/11

Stage One: Desired Results		
Title: Kinetics	Grade/Subject/Course: 11 th – 12 th AP Chemistry	Dates: 1/24 – 2/11
Big Idea(s): Reaction Rates	Teacher: P. Kendall	
Established Goals: SC5. Students will understand that the rate at which a chemical reaction occurs can be affected by changing concentration, temperature, or pressure and the addition of a catalyst. a. Demonstrate the effects of changing concentration, temperature, and pressure on chemical reactions. b. Investigate the effects of a catalyst on chemical reactions and apply it to everyday examples. c. Explain the role of activation energy and degree of randomness in chemical reactions.		
College Board AP Chemistry Topic Outline: III. Reactions D. Kinetics 1. Concept of rate of reaction 2. Use of experimental data and graphical analysis to determine reactant order, rate constants and reaction rate laws 3. Effect of temperature change on rates 4. Energy of activation; the role of catalysts 5. The relationship between the rate-determining step and a mechanism		
Enduring Understandings: <i>Students will understand that...</i> - concentration, physical states of reactants, temperature, and catalysts affect the rate of a reaction. - there is a relationship that exists between the disappearance of reactants and the appearance of products.		Essential Questions: - What factors affect the rate of a reaction? - What are reaction mechanisms? - How do catalysts speed up the rate of a reaction?
Knowledge: <i>Students will know...</i> - how to calculate the rate of a reaction based on concentration. - the step-by-step molecular pathways leading from reactants to products.		Skills: <i>Students will be able to...</i> calculate the rate of a reaction.
Stage Two: Assessment Evidence		
Performance Tasks/Projects (Summary):		<u>Other Evidence</u>
Stage Three: Learning Plan		
Be very specific in explaining and describing activities/performance in which students will complete		
Day	<u>Instructional Strategies</u>	Procedure
MON (27)	QUIZ	- QUIZ: Chemical Kinetics quiz - HOMEWORK: Read the lab for tomorrow.
TUES (28)	LAB	LAB: Students will complete the iodine clock reaction to study chemical kinetics. Students will vary the concentration of the reactants and temperature to observe how this changes the reaction rate.

Ubd Lesson Plan In Science

Patrick Brown



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PEDAGOGY OF COMPUTER SCIENCE Dr. K. Devisri, 2018-10-02 A Computer Science drastically will give you learning of programming equipment association working frameworks and hypothesis of calculation and standards of programming dialect These aptitudes will gear up graduates to enter innovative fields for example frameworks programming specialized bolster research and instructing Computer Science majors can take an interest in off grounds entry level positions autonomous study ventures low maintenance PC livelihood addresses by visitor speakers Society of Computing Students programming and on grounds work as lab partners lab bosses and Help Desk associates *Understanding by Design* Grant P. Wiggins, Jay McTighe, 2005 What is understanding and how does it differ from knowledge How can we determine the big ideas worth understanding Why is understanding an important teaching goal and how do we know when students have attained it How can we create a rigorous and engaging curriculum that focuses on understanding and leads to improved student performance in today's high stakes standards based environment Authors Grant Wiggins and Jay McTighe answer these and many other questions in this second edition of *Understanding by Design* Drawing on feedback from thousands of educators around the world who have used the UbD framework since its introduction in 1998 the authors have greatly revised and expanded their original work to guide educators across the K-16 spectrum in the design of curriculum assessment and instruction With an improved UbD Template at its core the book explains the rationale of backward design and explores in greater depth the meaning of such key ideas as essential questions and transfer tasks Readers will learn why the familiar coverage and activity based approaches to curriculum design fall short and how a focus on the six facets of understanding can enrich student learning With an expanded array of practical strategies tools and examples from all subject areas the book demonstrates how the research based principles of *Understanding by Design* apply to district frameworks as well as to individual units of curriculum Combining provocative ideas thoughtful analysis and tested approaches this new edition of *Understanding by Design* offers teacher designers a clear path to the creation of curriculum that ensures better learning and a more stimulating experience for students and teachers alike **STEM Education: Concepts, Methodologies, Tools, and Applications** Management Association, Information Resources, 2014-12-31 This reference brings together an impressive array of research on the development of Science Technology Engineering and Mathematics curricula at all educational levels Provided by publisher *Towards Inclusion of All Learners through Science Teacher Education* Michele Koomen, Sami Kahn, Christopher L. Atchison, Tiffany A. Wild, 2018-05-16 *Towards Inclusion of All Learners through Science Teacher Education* serves as an indispensable resource for teachers and teacher educators wishing to understand how to educate students with exceptionalities in science This book begins with the voices and stories of the experts current and former K-12 students with disabilities sharing their experiences in science education classrooms The voices of students with disabilities are then connected to the work of leading experts in the area of science education for

individuals with disabilities in an effort to address the goals of national reform documents by ensuring rigorous science experiences for all students It is written in a highly accessible and practical manner making it ideal for all educators including pre service and in service teachers teacher educators researchers and curriculum developers

Science Teacher Educators as K-12 Teachers Michael Dias, Charles J. Eick, Laurie Brantley-Dias, 2013-07-08 Science teacher educators prepare and provide professional development for teachers at all grade levels They seek to improve conditions in classroom teaching and learning professional development and teacher recruitment and retention Science Teacher Educators as K 12 Teachers Practicing What We Teach tells the story of sixteen teacher educators who stepped away from their traditional role and entered the classroom to teach children and adolescents in public schools and informal settings It details the practical and theoretical insights that these members of the Association of Science Teacher Educators ASTE earned from experiences ranging from periodic guest teaching to full time engagement in the teaching role Science Teacher Educators as K 12 Teachers shows science teacher educators as professionals engaged in reflective analysis of their beliefs about and experiences with teaching children or adolescents science With their ideas about instruction and learning challenged these educators became more aware of the circumstances today s teachers face Their honest accounts reveal that through teaching children and adolescents teacher educators can also renew themselves and expand their identities as well as their understanding of themselves in the profession and in relation to others Science Teacher Educators as K 12 Teachers will appeal to all those with an interest in science education from teacher educators to science teachers as well as teacher educators in other disciplines Its narratives and insights may even inspire more teacher educators to envision new opportunities to serve teachers K 12 learners and the local community through a variety of teaching arrangements in public schools and informal education settings

Inclusion Lesson Plan Book for the 21st Century Toby Karten, 2010 Inclusion is now a way of life for many students with disabilities in the 21st Century Today s classroom teachers need help with the implementation of inclusion through practical lesson plan formats and organizational templates to address their diverse student populations and to differentiate instruction This plan book is a comprehensive guide for honoring the inclusive classroom and includes weekly quarterly lesson plan formats assessment monitoring and record keeping forms effective inclusive strategies and much much more Ideal for General Education Classroom Teachers Special Education Collaborating Teachers Co Teaching Teams Packed with easy to use teacher friendly lesson plan formats that account for the special instructional needs accommodations and modifications of students including Response to Intervention RTI plans

The Explore-Before-Explain Guidebook for Science Education Patrick Brown, 2025-06-30 This guidebook uses an Explore before Explain instructional sequence to help you facilitate the design of active meaning making lessons in science Author Pat Brown models and breaks down how an Explore before Explain approach ensures students conceptual understandings are constructed primarily on evidence based experiences in the classroom From prompting students to ponder patterns

helping them identify cause and effect relationships to focusing on development of their thinking rather than validating ideas you can use Explore before Explain instruction to help your students feel confident in their thinking and become more self directed learners Chapters focus on developing your students conceptual science understanding through the investigation of natural occurrences Content and module examples are provided as well as attention to contemporary standards and safety in science Rather than acting as a prescriptive program however this book adds another element to your curriculum design showing how lessons can and should include critical elements of active sensemaking when designing an Explore before Explain sequence In addition the author shows the benefits of bringing Explore before Explain outside the classroom to create high quality professional and curriculum based learning This resource is ideal for K 12 science teachers as well as building administrators who are looking for a practice oriented and research based approach for their science curriculum As a classroom educator you can use these strategies for leveraging research into hands on minds on activities to promote more robust and equitable learning environments For leaders this resource can be used to develop professional learning experiences for sustained departmental improvement Understanding by Design Guide to Advanced Concepts in Creating and Reviewing Units Grant Wiggins,Jay McTighe,2012-03-16

The Understanding by Design Guide to Advanced Concepts in Creating and Reviewing Units offers instructional modules on how to refine units created using Understanding by Design UbD and how to effectively review the units using self assessment and peer review along with observation and supervision The Guide builds upon its companion and predecessor The Understanding by Design Guide to Creating High Quality Units and like the earlier volume it presents the following components for each module Narrative discussion of key ideas in the module Exercises worksheets and design tips Examples of unit designs Review criteria for self and peer assessment References for further information UbD is based on a backward design approach and is used by thousands of educators to create curriculum units and assessments that focus on developing students understanding of essential ideas and helping students attain important skills The Guide is intended for use by individuals or groups in K 16 education teachers school and district administrators curriculum directors graduate and undergraduate students in curriculum and others who want to further develop their skill in UbD Users can work through the modules in order or pick and choose depending on their interests and needs Additional resources including worksheets examples and FAQs are available as downloadable forms including fillable UbD templates that can be saved electronically making it easy for UbD practitioners to advance their understanding and their ability to create curriculum that leads to deep meaningful learning **Effectively Using Data for**

Educator Preparation Program Improvement Christine Carrino Gorowara, Erica M. Brownstein, Timothy Wall, 2023-05-01 This volume provides a synthesis of protocols and strategies to support assessment leaders in effectively using data for educator preparation program improvement Data informed decision making has become increasingly important in quality assurance for both internal and external audiences yet there are scant resources to guide those charged with managing the

development and application of data for monitoring and improving the quality of their programs Until this work there has been little explication of how assessment directors working in educator preparation should conceptualize organize and implement best practices in data collection analysis interpretation and sharing As state and national expectations for evidence of quality are growing it is essential to chronicle the collective wisdom of assessment leaders in education preparation in one manuscript For both novice and experienced assessment directors this volume offers insightful perspectives and excellent strategies to facilitate the journey from complying with external expectations to strategically using data and evidence to achieve goals leveraging assessment to achieve socially just outcomes involving multiple voices and interpreters and opening windows to further inquiry The editors have gathered experts in all phases of the assessment process and organized their work in an easy to follow manner This work provides both conceptual underpinnings of educator preparation quality assurance as well as practical lessons learned that will support the transformation of an assessment professional into an assessment leader ENSORSEMENTS Finally a book that shows what we can learn from accreditation collectively The strength of the volume lies in the concrete examples of evaluation and improvement that are woven throughout the chapters Effectively Using Data for Educator Preparation Improvement is a welcome addition to the small but growing body of useful literature related to quality assurance work in the field Mark LaCelle Peterson Ed D President and CEO Association for Advancing Quality in Educator Preparation The volume Effectively Using Data for Educator Preparation Program Improvement provides many examples of how providers collect data and evidence to establish or enhance quality assurance The publication will be of value to any provider seeking to enhance quality and improve their programs The publication is particularly timely given many state efforts to increase enrollments and diversity which have resulted in lowered standards Having measures and evidence of quality provide a necessary counter balance to these efforts Christopher Koch Ed D President Council for the Accreditation of Educator Preparation Effectively Using Data for Educator Preparation Program Improvement assists educators in data informed research and practice to improve programs diversify the profession and ensure that our teacher candidates are profession ready Written predominantly for the assessment director or leaders as the editors posit this volume goes beyond that goal to add a valuable resource for all of us who care about the field of educator preparation I highly recommend this book to the field as we work together to elevate the teaching profession Lynn M Gangone Ed D President CEO American Association of Colleges for Teacher Education

Cross-disciplinary STEM Learning for Asian Primary Students Winnie Wing Mui So,Zhi Hong Wan,Tian Luo,2023-11-27 Given the importance of student learning in the various types and integration of STEM education this book provides a landscape of cross disciplinary STEM learning in Asian primary schools and a systematic overview of design practices and outcomes of STEM learning implementation Science Technology Engineering and Mathematics STEM has continued to attract attention worldwide and there have been calls for the promotion of STEM education in primary schools to nurture students to meet the needs of

societies in terms of innovation and technology development Since STEM is complex in nature and is related to various disciplines the effort of a single discipline may not be as effective as cross disciplinary efforts This edited volume involving an Asian team of authors examines how cross disciplinary STEM learning can be designed for students to achieve viable outcomes and what opportunities and challenges have been offered to the next generation to equip them with the necessary skills knowledge and ways of thinking as well as attitudes and values for lifelong learning A resourceful text for students researchers and practitioners interested in the rich development of STEM education and practical methods for a variety of learning approaches from elementary to secondary education has been provided

Co-Teaching and Other Collaborative Practices in The EFL/ESL Classroom Andrea Honigsfeld, Maria G. Dove, 2012-05-01 Much has been written about the cognitive and academic language needs of those learning English as a new language be it a second language in the United States or other English speaking countries or as a foreign language in all other parts of the world Many guidebooks and professional development materials have been produced on teacher collaboration and co teaching for special education inclusive classrooms Similarly much has been published about effective strategies teachers can use to offer more culturally and linguistically responsive instruction to their language learners However only a few resources are available to help general education teachers and ESL English as a second language specialists or two English as a foreign language EFL teachers such as native and nonnative English speaking teachers to collaborate effectively With this volume our goal is to offer an accessible resource long awaited by educators whose individual instructional practice and or institutional paradigm shifted to a more collaborative approach to language education Through this collection of chapters we closely examine ESL EFL co teaching and other collaborative practices by a exploring the rationale for teacher collaboration to support ESL EFL instruction b presenting current classroom based practitioner oriented research studies and documentary accounts related to co teaching co planning co assessing curriculum alignment teacher professional development and additional collaborative practices and c offering authentic teacher reflections and recommendations on collaboration and co teaching These three major themes are woven together throughout the entire volume designed as a reference to both novice and experienced teachers in their endeavors to provide effective integrated collaborative instruction for EFL or ESL learners We also intend to help preservice and inservice ESL EFL teachers teacher educators professional developers ESL EFL program directors and administrators to find answers to critical questions

Using Understanding by Design in the Culturally and Linguistically Diverse Classroom Amy J. Heineke, Jay McTighe, 2018-07-11 How can today s teachers whose classrooms are more culturally and linguistically diverse than ever before ensure that their students achieve at high levels How can they design units and lessons that support English learners in language development and content learning simultaneously Authors Amy Heineke and Jay McTighe provide the answers by adding a lens on language to the widely used Understanding by Design framework UbD framework for curriculum design which emphasizes teaching for understanding not rote

memorization Readers will learn the components of the UbD framework the fundamentals of language and language development how to use diversity as a valuable resource for instruction by gathering information about students background knowledge from home community and school how to design units and lessons that integrate language development with content learning in the form of essential knowledge and skills and how to assess in ways that enable language learners to reveal their academic knowledge Student profiles real life classroom scenarios and sample units and lessons provide compelling examples of how teachers in all grade levels and content areas use the UbD framework in their culturally and linguistically diverse classrooms Combining these practical examples with findings from an extensive research base the authors deliver a useful and authoritative guide for reaching the overarching goal ensuring that all students have equitable access to high quality curriculum and instruction

A Few of Our Favorite Things Patricia D. Morrell, Kate

Popejoy, 2014-11-04 We are all familiar with the expression teachers bag of tricks It is fairly easy for K 12 teachers to do a quick web search scan library shelves and browse through journals to provide them with numerous lessons and ideas to keep their bags filled Science teacher educators need to not only provide preservice teachers with resources to help them fill their bags but also include crucial theory and pedagogy what constitutes minds on lessons not merely hands on activities But where do we science methods instructors find ideas to put in our bag of tricks to help us with the pedagogy we teach and model These kinds of teaching ideas are not so easy to find using the internet or even science methods textbooks This book is a collection of some favorite teaching ideas from science teacher educators from across the United States and abroad This book is NOT a collection of teaching ideas about specific science content This book IS a set of activities that help us prepare our preservice science teachers in the areas of Constructivism Conceptual Change Nature of Science Integration including Technology Integration Scientific Inquiry Engineering Design and Diversity Differentiation Each section starts with a brief overview of the topic and an introduction to the activities included on the theme The individual activities include step by step instructions modifications extensions references and additional readings to help you easily and fully implement the idea in your own classroom These ideas are a few of our favorites we hope they will become some of yours as well Rise and Shine

Linda Froschauer, Mary L. Bigelow, 2012 Rise and Shine provides a friendly support system that new science teachers can turn to in their first days months and even years in the classroom This easy to read book offers plenty of helpful techniques for managing the classroom maintaining discipline and dealing with parents But it also covers important topics unique to science teaching such as setting up a laboratory keeping the classroom safe and initiating inquiry from the first day Sprinkled throughout the book is candid advice from seasoned science teachers who offer both useful strategies and warm reassurance Rise and Shine is designed to help preservice teachers those in the first few years of teaching regardless of grade level and those who may be entering a new situation within the teaching field If you need a mentor or if you are a mentor or instructor who wants to support beginning science teachers this book is for you **Co-Teaching Do's, Don'ts,**

and Do Betters Toby J. Karten, Wendy W. Murawski, 2020-07-23 Co teaching has been increasingly adopted to support students in the general education classroom After 20 years of field testing we know what works and what doesn't In this practical guide co teaching and inclusion experts Toby J Karten and Wendy W Murawski detail the best practices for successful co teaching and ways to troubleshoot common pitfalls This book addresses the do's, don'ts, and do-betters of The co teaching relationship and collaborative roles Co planning instruction and assessment Co teaching in action Academic and behavioral supports and interventions Collaborative reflections improvements and celebrations Readers will gain valuable insights on what to start doing what to stop doing and how to improve their co teaching practices to better reach all students

Universal Access Through Inclusive Instructional Design Susie L. Gronseth, Elizabeth M. Dalton, 2019-09-06 Universal Access Through Inclusive Instructional Design explores the ways that educators around the world reduce barriers for students with disabilities and other challenges by planning and implementing accessible equitable high quality curricula Incorporating key frameworks such as Universal Design for Learning these dynamic contributions highlight essential supports for flexibility in student engagement representation of content and learner action and expression This comprehensive resource rich with coverage of foundations policies technology applications accessibility challenges case studies and more leads the way to design and delivery of instruction that meets the needs of learners in varying contexts from early childhood through adulthood

Inclusive Education Aimee Howley, Cassondra M. Faiella, Stephen D. Kroeger, Barbara Hansen, 2020-01-01 This book answers two questions What does the implementation of inclusive education require of a system of education and all parts of the system How do various parts of the education system act on their commitment to inclusive educational practice Decades after major legislation i.e. the Civil Rights Act the Elementary and Secondary Education Act and the Education for All Handicapped Children Act made high quality education a fundamental right for all children in the United States the dream of diverse inclusive democratic schooling has yet to be realized Nevertheless some classrooms schools districts states and universities have made progress Inclusive Education A Systematic Perspective explores the theoretical implications of inclusive practice as well as illustrative case studies and evaluation findings from states educator preparation programs districts and schools that have reframed their work around the principles of inclusive practice Whether these organizations position the work as social justice education culturally responsive teaching or inclusion their efforts lead in the same direction toward higher quality and more equitable education for all The chapters will be relevant to graduate students faculty members and education leaders at all levels who seek a comprehensive overview of the commitment and practice of inclusive education Chapters vary in their approaches to the topic some presenting theoretical underpinnings others describing practices or programs at particular sites others reporting findings from empirical studies and edited interviews with state and district leaders of inclusive education initiatives The book explores why inclusion is important and how it can be accomplished

Disrupting Secondary STEM Education Margery

Gardner,2024-12-19 This volume brings into focus the pivotal educational years during adolescence when many learners are exposed to implicit and explicit messages that STEM is not a viable educational pathway for them Challenging this notion Disrupting Secondary STEM Education brings together a collective of critical educators who share what disruptive STEM teaching looks and feels like from an insider perspective as well as the ways they purposefully create curriculum to subvert existing structures that can confine learning Through disruptive STEM teaching a joy for learning is kindled as well as a sense of empowered criticality in students that can support their development as global citizens facing complex futures The collection shares stories across a spectrum of educators from those beginning their teaching journey to those who ve stood up against narrow curriculum and standardized testing for years in the capacity of both P 12 teachers and teacher educators The voices of these educators illustrate how the work of disruptive STEM teaching can be actualized within cohorts of future teachers achieved through early engagement with critical theories and generative field experiences that support and affirm a wide array of identities This book provides multiple theoretical and practical access points for the reader to understand the work of disruptive STEM teaching and offers a way forward for those interested in developing more critical curriculum in their own classrooms As such it will be important reading for postgraduate students and researchers in Social Justice Education and STEM Education as well as for in service educators

The Essentials of Social Studies, Grades K-8 Kathy Checkley,2008-01-15 In today s climate of accountability and high stakes testing many U S schools are choosing to focus on the three Rs to the exclusion of other subjects including social studies Yet it is more crucial than ever for schools to foster the qualities that will enable students to actively participate in a democratic and global society The Essentials of Social Studies Grades K 8 takes a look at how innovative educators are helping students to hone these skills Readers of this book will learn more about The challenges that elementary and middle school teachers face in keeping social studies in the curriculum How to align social studies lessons with curriculum standards Strategies to infuse social studies instruction with passion and purpose Ways to promote students deep understanding of social studies content Why lessons and assessments should give students opportunities to solve problems work on projects and engage in simulations How social studies can prepare students for a lifetime of active civic involvement Professional development that will help teachers bring the social studies curriculum to life in the classroom The future of the United States in no small part depends on how well social studies teachers prepare students to assume their responsibilities as citizens The Essentials of Social Studies Grades K 8 will help teachers rise to this considerable challenge

Teach Janice Koch,2023-05-12 Through a concise but wide ranging exploration of the American public education system Teach Introduction to Education Fifth Edition asks readers to imagine themselves in the classroom and develop their own ideas of what it means to be a teacher

Embark on a transformative journey with Written by is captivating work, Discover the Magic in **Ubd Lesson Plan In Science** . This enlightening ebook, available for download in a convenient PDF format PDF Size: , invites you to explore a world of boundless knowledge. Unleash your intellectual curiosity and discover the power of words as you dive into this riveting creation. Download now and elevate your reading experience to new heights .

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Ubd Lesson Plan In Science Introduction

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