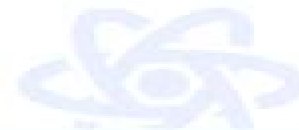


# STATES OF MATTER: LESSON PLAN



## MATERIALS

- Ice in a small container
- Clear plastic cups
- Syringes filled with water and isopropyl alcohol
- Paper and pens
- Water (100 ml for each group)
- Ice cubes
- Worksheet copies

## OBJECTIVES: AT THE END OF THE LESSON, THE STUDENTS SHOULD BE ABLE TO:

- Identify the phases of matter and its properties: solid, liquid, and gas
- Understand that matter can change its phase when heat or energy is added or removed

## COMPELLING AND SUPPORTING QUESTIONS TO GUIDE INQUIRY

- What happens to water when it turns to ice?
- When water evaporates, what becomes of its properties?

## PROCEDURES

15 minutes	Introduce matter. Facilitate discussion using "States of Matter" presentation.
35 minutes	<p>Carry out experimental tasks in groups of 4 students.</p> <p>For the experiment, provide each group with</p> <ul style="list-style-type: none"> <li>• 100 milliliters of water in a small container)</li> <li>• 1 ice cube</li> <li>• One syringe containing 5 milliliters of alcohol, and another one 5 milliliters of water</li> <li>• Worksheet</li> </ul> <p><b>Experiment 1: Solid-to-liquid phase transformation (Melting)</b></p> <ul style="list-style-type: none"> <li>• Students will be asked to note the amount of water in the glass.</li> <li>• Ask students to identify what phase water and ice assume.</li> <li>• Prompt students to drop an ice cube in the glass. Ask students to observe what happens to the ice cube and the amount of water.</li> <li>• Ask students what happens to the ice if it is left outside on a hot day.</li> </ul> <p><b>Experiment 2: Rate of Evaporation</b></p> <ul style="list-style-type: none"> <li>• Ask students to lay their hands flat on the table, palms facing up.</li> <li>• Using the droppers, put one drop of water on one palm and a drop of alcohol on the other palm.</li> <li>• Prompt students to observe the different liquids in their hands.</li> <li>• Ask students to watch how both hands feel with the different types of liquid.</li> <li>• After a minute, ask the student which palm has any liquid left.</li> </ul>

## ASSESSMENT

Students are to answer the worksheet, which asks them to identify the phase of matter for the object in the photos and the final phase of matter based on cause and effect (adding or removing heat and energy).

# Inquiry Based Learning Curriculum Design Lesson Plan

**IM Harris**



## **Inquiry Based Learning Curriculum Design Lesson Plan:**

Dance Teaching Methods and Curriculum Design Gayle Kassing, Danielle Jay-Kirschenbaum, Danielle Mary Jay, 2021 Dance Teaching Methods and Curriculum Design Second Edition presents a comprehensive model that prepares students to teach dance in school and community settings It offers 14 dance units and many tools to help students learn to design lesson plans and units and create their own dance portfolio Diverse Learning Opportunities Through Technology-Based Curriculum Design Williams, Demetrick, Harkness, N. Nsombi, 2018-08-30 The infusion of technology into curriculum influences the methods and techniques used to educate the student population By integrating effective technology in education teachers are provided with a better opportunity to adapt and enhance the learning experience for students from various backgrounds Diverse Learning Opportunities Through Technology Based Curriculum Design provides innovative insights into the development and advancement of online instruction and educational technology to engage students from diverse backgrounds The content within this publication addresses academic performance technology integration and online learning It is geared towards educators educational software developers instructional designers and researchers and it covers topics centered on the methods to adjust adapt and implant the newest technology into contemporary curriculum ,

Concept-Based Curriculum and Instruction for the Thinking Classroom H. Lynn Erickson, 2007 This indispensable guide combines proven curriculum design with teaching methods that encourage students to learn concepts as well as content and skills for deep understanding across all subject areas Models of Teaching Jeanine M. Dell'Olio, Tony Donk, 2007-02-26 Models of Teaching Connecting Student Learning with Standards features classic and contemporary models of teaching appropriate to elementary and secondary settings Authors Jeanine M Dell Olio and Tony Donk use detailed case studies to discuss 10 models of teaching and demonstrate how they can be connected to state content standards and benchmarks as well as technology standards This book provides readers with the theoretical and practical understandings of how to use models of teaching to both meet and exceed the growing expectations for research based instructional practices and student achievement Preparing Agriculture and Agriscience Educators for the Classroom Thoron, Andrew C., Barrick, R. Kirby, 2022-06-24 The preparation of school based agriculture teachers has been a part of public education for over 100 years However there is a lack of texts available that address the components of teacher education in agriculture including teacher preparation and related activities Further study that goes beyond concepts to include practice and applications is required in order to further develop educators in this sector Preparing Agriculture and Agriscience Educators for the Classroom provides an up to date consideration of the best practices for developing and enhancing a complete teacher preparation program and highlights and showcases concepts and applications It is a mainstay for teacher education and teacher preparation in agriculture and is applicable anywhere in the world where teaching agriculture exists Covering a range of topics such as field experiences and student learning this reference work is ideal for researchers scholars practitioners academicians

administrators instructors and students  
B. Keating,2014-09-16 Print CourseSmart

**Curriculum Development and Evaluation in Nursing, Third Edition** Sarah  
**Mathematics Curriculum Topic Study** Page Keeley,Cheryl M.

Rose,2006-04-06 This book addresses the needs of teachers at every level in their teaching careers as well as those who support and work with teachers The processes can be used individually to guide professional learning and teaching or within almost any professional development structure for facilitating group learning Katherine E Stiles Senior Program Associate WestEd This resource supports continual professional growth of both content and pedagogical knowledge and will help teachers focus on the appropriate research What a time saver this is Rhonda Naylor National Board Certified Mathematics Teacher Campus Middle School Englewood CO Attain the tools to plan and incorporate standards based instruction that positively impacts student achievement Becoming an accomplished mathematics teacher requires not only a thorough understanding of content but also a familiarity with mathematics standards and research However a strategy for translating standards and research into instructional practice has been lacking since the advent of standards based education reform Mathematics Curriculum Topic Study provides a systematic professional development strategy that links mathematics standards and research to curriculum instruction and assessment Developed by authors Page Keeley and Cheryl M Rose of the Maine Mathematics and Science Alliance the NSF funded Curriculum Topic Study CTS process can help educators align their practice with research based concepts and skills required in local state and national standards Successfully field tested with hundreds of teachers mathematics coordinators and staff developers this book contains 92 ready to use CTS guides arranged in seven categories that are aligned with NCTM content and process standards Designed to work in a variety of contexts the CTS process will help teachers Increase their content and pedagogical knowledge Better understand and access mathematics research Translate standards to the classroom in a conscious scholarly way Learn to recognize and address learning difficulties Increase opportunities for all students to achieve mathematical literacy An essential investment toward improving student achievement in mathematics for K 12 teachers staff developers directors of curriculum department chairs and math educators this innovative resource is also appropriate for preservice teachers and preservice higher education faculty

**STEM: Innovation on Teaching and Learning** Vanda Santos,Cecília Costa,Dina Tavares,2025-02-04 This Research Topic is focused on STEM education based on this model several studies have emerged on innovative approaches on teaching and learning In order to meet the demands of developing students for the 21st century skills and given the appropriate characteristics for this goal of the STEM model further research is needed on this topic Being so it is justified to carry out more research on STEM approaches such as with pre service teachers in service teachers and all levels of education This research topic provides a stimulating and informative variety of research papers that expand and deepen our theoretical understanding on STEM innovations on teaching and learning Taking into account the demands of developing students for the 21st century skills in this Research Topic we aim to collect high quality studies focused on STEM model

related to pre service teachers in service teachers as well as students of all levels of education We also intend to cover the largest variety of topics addressing this specific matter that could help to foster STEM implementation in the classroom to sharing STEM model education training experiences Furthermore we are interested in contributions that provide deepening insights into the challenges and opportunities involved in adopting STEM education in teaching and learning in a sustainable way Effective Instructional Strategies Kenneth D. Moore,2009 Applying the latest research findings and practical classroom practices this book provides thorough coverage of the strategies and skills needed for effective teaching

*Teaching Dance as Art in Education* Brenda Pugh McCutchen,2006 Brenda McCutchen provides an integrated approach to dance education using four cornerstones dancing and performing creating and composing historical and cultural inquiry and analysing and critiquing She also illustrates the main developmental aspects of dance *Teaching in the Standards-based Classroom* ,2001 Virtually every national standards document every state framework and every local set of standards calls for fundamental changes in what and how teachers teach The challenge for teachers is to implement the vision for mathematics and science classrooms called for in the standards This issue describes that vision and suggests ways to use the standards mandated in your school to improve your practice to help you teach in your standards based classroom

**Models of Teaching** M.h.siddiqui,2009 **Curriculum and Learning for Climate Action** ,2021-11-01 Listen to the podcast The world is on a track to true climate catastrophe with unprecedented heat floods wildfires and storms setting new records almost weekly To avoid a climate disaster we need rapid transformative and sustained action as well as a major shift in our thinking a shift strong enough to make the climate crisis a center of our social political economic personal and educational life Curriculum and Learning for Climate Action is one of the best scorecards in comparative education for keeping track of this drama as it unfolds shedding light on the global climate crisis like no other education writing today This book turns to our curricula our education systems and our communities for a response on how to effectively achieve Target 4 7 of the UN Sustainable Development Goals SDGs Universal Education for Sustainable Development ESD and Global Citizenship Education GCED The message from key stakeholders including students educators and leaders of civil society is driven home with passion and uncommon clarity We can and must stave off the worst of climate change by building climate action into the world s pandemic recovery *Place-based Curriculum Design* Amy B. Demarest,2014-10-30 Place based Curriculum Design provides pre service and practicing teachers both the rationale and tools to create and integrate meaningful place based learning experiences for students Practical classroom based curricular examples illustrate how teachers can engage the local and still be accountable to the existing demands of federal state and district mandates Coverage includes connecting the curriculum to students outside of school lives using local phenomena or issues to enhance students understanding of discipline based questions engaging in in depth explorations of local issues and events to create cross disciplinary learning experiences and creating units or sustained learning experiences aimed at engendering social and

environmental renewal An on line resource [www.routledge.com/9781138013469](http://www.routledge.com/9781138013469) provides supplementary materials including curricular templates tools for reflective practice and additional materials for instructors and students **Using**

**STEM-Focused Teacher Preparation Programs to Reimagine Elementary Education** Cayton, Emily, Sanders, Miriam, Williams, John A., 2024-02-07 There has been an increasing issue in STEM education as many students lack interest and knowledge in STEM disciplines and fields Given the high demand for STEM workers and the projected growth of STEM fields it is important to expose students to STEM education beginning as early as elementary school Some K 6 programs are not preparing teacher candidates adequately for STEM content or skills especially in engineering Integrating these disciplines and practices throughout elementary education programs could result in more exposure for K 6 students Using STEM Focused Teacher Preparation Programs to Reimagine Elementary Education presents anecdotal stories of how elementary education programs have altered their content offerings field experiences and curricula to expand their teacher candidates knowledge and exposure to STEM disciplines and fields Covering key topics such as diversity teacher education and technology integration this premier reference source is ideal for industry professionals policymakers administrators of K 12 education pre service teachers teacher educators researchers scholars academicians practitioners instructors and students **Social Studies and Diversity Education** Elizabeth E. Heilman, Ramona Fruja, Matthew Missias, 2010-01-21

This one of a kind resource features ideas from over one hundred of our nation s most thoughtful teacher educators reflecting on their best practices and offering specific strategies through which future teachers learn to teach *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      **Learning by Effective Utilization of Technologies** Riichiro Mizoguchi,Pierre Dillenbourg,Zhiting Zhu,2006 Based on the theme of the use of computers for supporting collaborative learning this book includes contributions that aim to bridge both research tracks the one focusing on interactions and the other on contents the pedagogical use of digital portfolios both for promoting individual reflections and for scaffolding group interactions      **Rigorous Curriculum Design** Larry Ainsworth,2010 The need for a cohesive and comprehensive curriculum that intentionally connects standards instruction and assessment has never been more pressing For educators to meet the challenging learning needs of students they must have a clear road map to follow throughout the school year Rigorous Curriculum Design presents a carefully sequenced hands on model that curriculum designers and educators in every school system can follow to create a progression of units of study that keeps all areas tightly focused and connected

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