

# 5 PBL AND THE ARTS LESSON IDEAS

## INTEGRATED CONTENT

**DANCE + MATH**

## STRAND

**CREATE**



## DRIVING QUESTION

How can the principle of symmetry influence the creation of an original piece of choreography?

## PROJECT LESSON IDEA

Students will work collaboratively to create a dance that effectively demonstrates symmetry, in both locomotor and non-locomotor movements, as individuals, pairs, groups and in forms.

## INTEGRATED CONTENT

**MEDIA ARTS + MATH**

## STRAND

**PRODUCE**



## DRIVING QUESTION

How can presenting or sharing media artworks in a public format help a media artist learn and grow?

## PROJECT LESSON IDEA

Create a media project to accompany a piece of art which incorporate geometric concepts (i.e., Mondrian perimeter vs. area). Record an artist statement, explaining the mathematical process and use the ShowMe app to create a digital display of their creation.

## INTEGRATED CONTENT

**MUSIC + ELA**

## STRAND

**RESPOND**



## DRIVING QUESTION

How can we interpret the intent of a piece of music?

## PROJECT LESSON IDEA

Engage students in a guided listening experience. Have them write a monologue as a "character" from the piece (the composer, the performer, an instrument, etc.). Present the monologue to a small group, and journal about the choices they made in their creation.

## INTEGRATED CONTENT

**THEATER + SCIENCE**

## STRAND

**CONNECT**



## DRIVING QUESTION

We usually see theatre represent stories related to people, times, and places. How can theatre be used to communicate a story related to a science-related topic?

## PROJECT LESSON IDEA

Students research plays and stories related to topics in the sciences. Have students collaboratively choose a topic or assign topics related to a scientific unit of study, and have groups create scripts that tell a story related to that unit of study.

## INTEGRATED CONTENT

**VISUAL ART + SOCIAL STUDIES**

## STRAND

**PRESENT**



## DRIVING QUESTION

What criteria are considered when selecting work for presentation, a portfolio or a collection?

## PROJECT LESSON IDEA

Students curate artifacts related to a social studies topic. Include music, visual art, videos, digital media, information about important individuals from the time/culture, and cultural/historical items in their exhibit. Artifacts should be catalogued and given museum tags, and students should be able to act as a docent to visitors.

# Plate Tectonics Problem Based Learning Ideas

**C Cleary**



## **Plate Tectonics Problem Based Learning Ideas:**

**Problem-Based Learning** John F. Barell, 2006-12-20 A step by step guide for teaching your students to think critically and solve complex problems Problem based learning expert John Barell troubleshoots the PBL process for teachers drawing from practical classroom experience Step by step procedures make this remarkably effective teaching model accessible and highly doable for all teachers from beginners to veterans This standards based teacher friendly second edition of the author's popular PBL guide includes Examples showing problem based learning in action Answers to frequently asked questions on standards based implementation Thorough guidelines for developing problems for students to solve Rubrics and assessment tips to ensure that standards are met *Becoming a Better Science Teacher* Elizabeth Hammerman, 2016-03-22 In today's standards based educational climate teachers are challenged to create meaningful learning experiences while meeting specific goals and accountability targets In her essential new book Elizabeth Hammerman brings more than 20 years as a science educator and consultant to help teachers connect all of the critical elements of first rate curriculum and instruction With this simple straight on guide teachers can analyze their existing curriculum and instruction against a rubric of indicators of critical characteristics related standards concept development and teaching strategies to develop students scientific literacy at the highest levels Every chapter is packed with charts sample lesson ideas reflection and discussion prompts and more to help teachers expand their capacity for success Hammerman describes what exceptional teaching looks like in the classroom and provides practical teacher friendly strategies to make it happen This research based resource will help teachers Reinforce understanding of standards based concepts and inquiry Add new content methods and strategies for instruction and assessment Create rich learning environments Maximize instructional time Ask probing questions and sharpen discussion Include technology Gather classroom evidence of student achievement to inform instruction Through a new clear vision for high quality science teaching this book gives teachers everything they need to deliver meaningful science instruction and ensure student success and achievement

**Idea-Based Learning** Edmund J. Hansen, 2023-07-03 Synthesizing the best current thinking about learning course design and promoting student achievement this is a guide to developing college instruction that has clear purpose is well integrated into the curriculum and improves student learning in predictable and measurable ways The process involves developing a transparent course blueprint focused on a limited number of key concepts and ideas related tasks and corresponding performance criteria as well as on frequent practice opportunities and early identification of potential learning barriers Idea based Learning takes as its point of departure the big conceptual ideas of a discipline that give structure and unity to a course and even to the curriculum as opposed to a focus on content that can lead to teaching sequences of loosely related topics and aligns with notions of student centered and outcomes based learning environments Adopting a backwards design model it begins with three parallel processes first identifying the material that is crucial for conceptual understanding second articulating a clear rationale for how to choose

learning outcomes based on student needs and intellectual readiness and finally aligning the learning outcomes with the instructional requirements of the authentic performance tasks The resulting syllabi ensure cohesion between sections of the same course as well as between courses within a whole curriculum assuring the progressive development of students skills and knowledge Key elements of IBL include Helping students see the big picture Building courses around one or more authentic performance tasks that illuminate the core concepts of the discipline Clearly identifying performance criteria for all tasks Incorporating practice in the competencies that are deemed important for students success By placing the onus of learning on the student liberating faculty to take on the role of learning coaches Designing tasks that help students unlearn simplistic ideas and replace them with improved understandings Edmund Hansen expertly guides the reader through the steps of the process providing examples along the way and concluding with a sample course design document and syllabus that illustrate the principles he propounds

**Reinventing Project Based Learning** Suzie Boss, Jane Krauss, 2018-11-14 This updated edition of the bestselling Reinventing Project Based Learning offers examples of the latest tools assessment strategies and promising practices poised to shape education in the future This popular ISTE title follows the arc of a project providing guided opportunities to direct and reflect educators own learning and professional development This book shows how to design authentic projects that make the most of available and emerging technologies This new edition Provides examples of how to merge personalized learning flipped classrooms and PBL for effective teaching and learning Includes coverage of computational thinking and coding demonstrating ways to develop new approaches to solving problems as well as new forms of expression Discusses PBL as an equity consideration with opportunities for personalization and empowerment addressing issues of social justice and closing the achievement gap Includes coverage on new trends like augmented and virtual reality and new and updated Spotlights from educators featured in the first edition and others Features deeper focus on Gold Standard and High Quality PBL the P21 Framework and ISTE Standards for Students and Educators With this book teachers will come to appreciate the importance of problem finding and problem posing thoughtful activity that needs to precede problem solving in any context The companion jump start guide based on this book is Project Based Learning Strategies and Tools for Creating Authentic Experiences Audience K 12 classroom teachers teacher educators

*100 Brain-Friendly Lessons for Unforgettable Teaching and Learning (K-8)* Marcia L. Tate, 2019-07-31 Use research and brain based teaching to engage students and maximize learning Lessons should be memorable and engaging When they are student achievement increases behavior problems decrease and teaching and learning are fun In 100 Brain Friendly Lessons for Unforgettable Teaching and Learning K 8 best selling author and renowned educator and consultant Marcia Tate takes her bestselling Worksheets Don't Grow Dendrites one step further by providing teachers with ready to use lesson plans that take advantage of the way that students really learn Readers will find 100 cross curricular sample lessons from each of the four major content areas Plans designed around the most frequently taught objectives Lessons educators

can immediately adapt 20 brain compatible research based instructional strategies Questions that teachers should ask and answer when planning lessons Guidance on building relationships with students to maximize learning

**Teaching Science and Investigating Environmental Issues with Geospatial Technology** James MaKinster,Nancy Trautmann,Michael Barnett,2013-11-05 The emerging field of using geospatial technology to teach science and environmental education presents an excellent opportunity to discover the ways in which educators use research grounded pedagogical commitments in combination with their practical experiences to design and implement effective teacher professional development projects Often missing from the literature are in depth explicit discussions of why and how educators choose to provide certain experiences and resources for the teachers with whom they work and the resulting outcomes The first half of this book will enable science and environmental educators to share the nature and structure of large scale professional development projects while discussing the theoretical commitments that undergird their work Many chapters will include temporal aspects that present the ways in which projects change over time in response to evaluative research and practical experience In the second half of the book faculty and others whose focus is on national and international scales will share the ways in which they are working to meet the growing needs of teachers across the globe to incorporate geospatial technology into their science teaching These efforts reflect the ongoing conversations in science education geography and the geospatial industry in ways that embody the opportunities and challenges inherent to this field This edited book will serve to define the field of teacher professional development for teaching science using geospatial technology As such it will identify short term and long term objectives for science environmental and geography educators involved in these efforts As a result this book will provide a framework for future projects and research in this exciting and growing field

**Understanding and Using Reading Assessment, K-12** Peter Afflerbach,2025-01-02 Well established as a teaching resource and course text this guide to the whats how tos and whys of reading assessment is now in a thoroughly revised fourth edition Peter Afflerbach succinctly introduces major types of assessments including formative and summative performance assessments teacher questioning and high stakes testing He provides an innovative framework the CURRV model for evaluating the suitability of assessments and combining them effectively to meet all students needs Emphasis is given to assessing core reading skills and strategies as well as noncognitive and social emotional aspects of reading development Helpful features include detailed examples of assessment done well within chapter Enhance Your Understanding questions and activities and 25 reproducible and downloadable checklists and forms New to This Edition Explains assessment in a science of reading context Increased focus on equity issues plus updated theory and research throughout Chapter on assessing early reading Chapter on assessing digital and critical reading

**Learning to Read the Earth and Sky** Russ Colson ,Mary Colson,2016-12-01 Is it time to refresh the way you think about teaching Earth science Learning to Read the Earth and Sky is the multifaceted resource you need to bring authentic science and enthusiasm into your classroom It offers inspiration for reaching beyond prepared

curricula engaging in discovery along with your students and using your lessons to support the Next Generation Science Standards NGSS The book provides examples of Earth science labs and activities you and your students can do as co investigators insights into student expectations and misconceptions plus ideas for inspiring true investigation stories of real scientific discovery translated for classroom consideration exploration of how you can mentor students as a teacher scholar and guidance on how to translate the sweeping core ideas of the NGSS into specific examples students can touch see and experience The authors of Learning to Read the Earth and Sky are husband and wife educators who promote science as something to figure out not just something to know They write It is our hope that readers will find our book short on edu speak long on the joy of doing science and full of stories of students classrooms scientists and Earth and sky *Formation of the Earth, Grade 9* Carla C. Johnson, Janet B. Walton, Erin E. Peters-Burton, 2022-05-23 What if you could challenge your ninth graders to use geologic theory and standards of measurement to explore different epochs and time periods of the Earth s formation With this volume in the STEM Road Map Curriculum Series you can Formation of the Earth outlines a journey that will steer your students toward authentic problem solving while grounding them in integrated STEM disciplines Like the other volumes in the series this book is designed to meet the growing need to infuse real world learning into K 12 classrooms This interdisciplinary three lesson module uses project and problem based learning to help students investigate how Earth science professionals gather information and develop theories about the formation of the Earth and the processes taking place since the proliferation of humans Working in teams students will work to identify define and describe the attributes scientists use to delineate Earth s eras periods and epochs in order to determine the appropriate boundary event to define the Anthropocene Epoch and will develop a publication ready textbook entry for an Earth science textbook To support this goal students will do the following Identify define and describe attributes of eras periods and epochs which have marked geologic time in Earth s history Evaluate various possible index layers and boundary events that mark the beginning of the Anthropocene Epoch to determine which is most appropriate when labeling the current epoch in Earth s history Design and present a multimedia presentation to share with textbook publishers regarding information on the Anthropocene Epoch to include in a secondary level Earth science textbook Create a publication ready textbook entry describing the Anthropocene Epoch The STEM Road Map Curriculum Series is anchored in the Next Generation Science Standards the Common Core State Standards and the Framework for 21st Century Learning In depth and flexible Formation of the Earth can be used as a whole unit or in part to meet the needs of districts schools and teachers who are charting a course toward an integrated STEM approach **International Handbook of Research on Environmental Education** Robert B. Stevenson, Michael Brody, Justin Dillon, Arjen E.J. Wals, 2013-05-02 The environment and contested notions of sustainability are increasingly topics of public interest political debate and legislation across the world Environmental education journals now publish research from a wide variety of methodological traditions that show linkages between the environment health development

and education The growth in scholarship makes this an opportune time to review and synthesize the knowledge base of the environmental education EE field The purpose of this 51 chapter handbook is not only to illuminate the most important concepts findings and theories that have been developed by EE research but also to critically examine the historical progression of the field its current debates and controversies what is still missing from the EE research agenda and where that agenda might be headed Published for the American Educational Research Association AERA     Education and Technology for a Better World Arthur Tatnall,Anthony Jones,2009-07-03 Education and Technology for a Better World was the main theme for WCCE 2009 The conference highlights and explores different perspectives of this theme covering all levels of formal education as well as informal learning and societal aspects of education The conference was open to everyone involved in education and training Additionally players from technological societal business and political fields outside education were invited to make relevant contributions within the theme Education and Technology for a Better World For several years the WCCE World Conference on Computers in Education has brought benefits to the fields of computer science and computers and education as well as to their communities The contributions at WCCE include research projects and good practice presented in different formats from full papers to posters demonstrations panels workshops and symposiums The focus is not only on presentations of accepted contributions but also on discussions and input from all participants The main goal of these conferences is to provide a forum for the discussion of ideas in all areas of computer science and human learning They create a unique environment in which researchers and practitioners in the fields of computer science and human learning can interact exchanging theories experiments techniques applications and evaluations of initiatives supporting new developments that are potentially relevant for the development of these fields They intend to serve as reference guidelines for the research community     **Computer Supported Collaborative Learning 2005** Timothy Koschmann,2017-10-03 The Computer Supported Collaborative Learning CSCL conference has become an internationally recognized forum for the exchange of research findings related to learning in the context of collaborative activity and the exploration of how such learning might be augmented through technology This text is the proceedings from CSCL 2005 held in Taipei Taiwan This conference marked the 10th anniversary of the first CSCL Conference held at Indiana University in 1995 Subsequent meetings have been held at the University of Toronto Stanford University University of Maastricht Netherlands University of Colorado at Boulder and the University of Bergen Norway Just as the first CSCL conference was instrumental in shaping the trajectory of the field in its first decade the conference in Taipei will play an important role in consolidating an increasingly international and interdisciplinary community and defining the direction of the field for the next 10 years This volume and the papers from which it is comprised will be an important resource for those active in this area of research and for others interested in fostering learning in settings of collaboration     Leading 21st Century Schools Lynne Schrum,Barbara B. Levin,2015-04-07 Master The Latest Educational Technology To Teach 21st

Century Skills The pace of technological change picks up speed with each passing day Educators must place the proper emphasis on technology leadership using proven methods if they are to prepare students to thrive in the classroom and beyond When first published in 2009 this book empowered administrators and teachers to plan and execute effective strategies for enhancing student engagement and achievement through technology This second edition features 80% brand new material addressing the latest technological developments combined with the authors tested methods for applying them in schools Features include Aligning technology to the ISLLC Standards ISTE Standards and Common Core State Standards Comprehensive guides to the newest technologies and trends that school leaders need to know A companion website featuring a massive volume of resources for additional progress With this book close at hand school leaders will confidently guide students into the exciting digital future The world of technology changes by the second and educators are left in the dust to navigate a tsunami of tools Levin and Schrum provide a detailed roadmap of technology tools available today and how they can be harnessed by educators to improve student engagement Eric Sheninger Educational Consultant and Author of Digital Leadership School leaders need less philosophy and more of a focus on the practical steps needed to move forward Levin and Schrum update their best selling First Edition by adding in the newest innovations in technology while at the same time offering suggestions on how to get started Peter DeWitt Corwin author Consultant Finding Common Ground Blog Education Week Constructivist Instruction Sigmund Tobias, Thomas M. Duffy, 2009-05-28 Bringing together leading thinkers from both sides of the hotly debated controversy about constructivist approaches to instruction this book presents the evidence for and against constructivism and detailed views from both sides of the controversy A distinctive feature is the dialogue built into it between the different positions **Project Based Learning Handbook** Thom Markham, John Larmer, Jason Louis Ravitz, 2003 Education and Training in Geo-Engineering Sciences Iacint Manoliu, Nicoleta Radulescu, 2008-05-20 Covering a broad range of topics curricular matters in geo engineering education teaching learning and assessment in geo engineering education challenges in geotechnical engineering education issues in education and training in Engineering Geology the link university professional world in geo engineering this book will be invaluable to university teachers academics and professionals involved in education and training in geo engineering sciences

**Proceedings of the National Science Foundation Workshop on the Role of Faculty from the Scientific Disciplines in the Undergraduate Education of Future Science and Mathematics Teachers**, 1993 Earth and Mind II Kim A. Kastens, Cathryn A. Manduca, 2012 Articles refer to teaching at various different levels from kindergarten to graduate school with sections on teaching geologic time space complex systems and field work Each section includes an introduction a thematic paper and commentaries *The Art of Teaching Science* Jack Hassard, 2005 This is a core teaching textbook designed for the professional development of middle and high school science teachers Differing from other texts in its constructivist approach to learning and teaching it provides meaningful learning experiences and connections with the



most recent research and understanding of science teaching Each chapter is organized into two sections the first focuses on the content of the major theme of the chapter while the second consists of a newspaper like feature called The Science Teaching Gazette containing a variety of strategies for extending the learning process Packed with learning tools hands on inquiry activities case studies think pieces and interviews with teachers around the world this is a remarkably comprehensive textbook designed to prepare a new cadre of science teachers Midwest

*International Handbook of Research in History, Philosophy and Science Teaching* Michael R. Matthews, 2014-07-03 This inaugural handbook documents the distinctive research field that utilizes history and philosophy in investigation of theoretical curricular and pedagogical issues in the teaching of science and mathematics It is contributed to by 130 researchers from 30 countries it provides a logically structured fully referenced guide to the ways in which science and mathematics education is informed by the history and philosophy of these disciplines as well as by the philosophy of education more generally The first handbook to cover the field it lays down a much needed marker of progress to date and provides a platform for informed and coherent future analysis and research of the subject The publication comes at a time of heightened worldwide concern over the standard of science and mathematics education attended by fierce debate over how best to reform curricula and enliven student engagement in the subjects There is a growing recognition among educators and policy makers that the learning of science must dovetail with learning about science this handbook is uniquely positioned as a locus for the discussion The handbook features sections on pedagogical theoretical national and biographical research setting the literature of each tradition in its historical context It reminds readers at a crucial juncture that there has been a long and rich tradition of historical and philosophical engagements with science and mathematics teaching and that lessons can be learnt from these engagements for the resolution of current theoretical curricular and pedagogical questions that face teachers and administrators Science educators will be grateful for this unique encyclopaedic handbook Gerald Holton Physics Department Harvard University This handbook gathers the fruits of over thirty years research by a growing international and cosmopolitan community Fabio Bevilacqua Physics Department University of Pavia

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