

Curriculum Map

Earth Science - High School

Month	Content	Skills	Assessment
September	<ul style="list-style-type: none"> • Science is a formal process to use to observe, classify, and analyze the environment. • The purpose of science is to describe, analyze, & predict the extent & impact of change. • Many changes in nature are cyclic & therefore predictable. • Much of our difficulty with prediction is due to the complex relationships among many variables. 	<ul style="list-style-type: none"> • Use instruments to measure observable properties. • Use the metric system to record & manipulate measurements. • Classify & record observations on the basis of concise criteria. • Draw inferences on relationships among observations. • Construct graphs that illustrate relationships between 2 variables. • Use graphs to predict how a change in one variable will affect another variable. • Construct isoline maps. • Use isoline maps to compute gradients of various field quantities. • Inter-relationships between the gradient of a field quantity & observations of the mapped area 	<ul style="list-style-type: none"> • Measurement labs - mass, volume, density • Use lab equipment to measure quants. • shoe box lab - observation & inference • Use observations to draw an inference. • diagram & graph interpretations • multiple choice questions - review sheets, quizzes, tests • open notebook quizzes • All test questions are Regents quest. • isotherm lab • sunspot lab - graphing & prediction • review / quiz / test • extra credit review sheet • Regents questions • open notebook quizzes • topic test of Regents questions

Earth Science High School Essential Question

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Earth Science High School Essential Question:

The Mastery Learning Handbook Jonathan Bergmann, 2022-10-14 Mastery learning is an instructional approach that empowers every student to progress with confidence. Using flexible pacing and targeted supports, teachers guide students through a cyclic process of preparation, demonstration, and formative feedback until there is a mutual agreement between teacher and student that the student is ready to advance. In this book, educator Jonathan Bergmann, a pioneer of the flipped classroom movement, walks you step by step through the mastery learning cycle, explaining what it entails and providing the templates, models, and rubrics you need to start using it in your own classroom. You'll learn how to set meaningful, measurable, and transferable learning objectives that target essential knowledge, skills, and dispositions. Develop a mastery rubric to check for student levels of proficiency. Create an assessment plan that ensures positive learning experiences for all. Plan and deliver units that incorporate both time-shifted direct instruction and collaborative application activities within the classroom space. Provide timely differentiated support based on students' individual learning needs. Informed by trial and error in his own classroom and by discussions with other expert practitioners, Bergmann shares commonsense solutions to the major challenges of mastery learning implementation, everything from how to manage pacing to how to create multiple versions of tests, determine grades, and get stakeholder buy-in. *The Mastery Learning Handbook* is both an introduction to this exciting instructional approach and a practical resource that K-12 teachers can turn to again and again. See for yourself just how effective, enjoyable, and transformative mastery learning can be.

Teaching Discipline-Specific Literacies in Grades 6-12 Vicky I. Zygouris-Coe, 2014-10-30 Comprehensive, timely, and relevant, this text offers an approach to discipline-specific literacy instruction that is aligned with the Common Core State Standards and the needs of teachers, students, and secondary schools across the nation. It is essential that teachers know how to provide instruction that both develops content and literacy knowledge and skills and aims at reducing student achievement gaps. Building on the research-supported premise that discipline-specific reading instruction is key to achieving these goals, this text provides practical guidance and strategies for prospective and practicing content-area teachers and other educators on how to prepare all students to succeed in college and the workforce. Pedagogical features in each chapter engage readers in digging deeper and in applying the ideas and strategies presented in their own contexts. Classroom Life real 6-12 classroom scenarios and interviews with content-area teachers. Common Core State Standards Connections. College, Career, and Workforce Connections. Applying Discipline-Specific Literacies. Think Like an Expert. habits of thinking and learning specific to each discipline. Digital Literacies. Differentiating Instruction. Reflect and Apply Questions. Extending Learning Activities. The Companion Website includes Lesson plan resources, Annotated links to video files, Annotated links to additional resources and information, Glossary, Flashcards, For Instructors, All images and figures used in the text provided in an easily downloadable format, For Instructors, PowerPoint lecture slides.

Strategies for Teaching Boys and Girls -- Secondary Level Michael Gurian, Kathy Stevens, Kelley

King,2011-01-06 In his best selling classic Boys and Girls Learn Differently Michael Gurian explained the origin and nature of gender differences in the classroom His important book explored the behavior teachers observed and the challenges they faced with both boys and girls in their classrooms Taking the next step Strategies for Teaching Boys and Girls Secondary level A Workbook for Educators offers teachers a hands on resource that draws on the Gurian Institute's research and training with secondary schools and school districts The workbook presents practical strategies lessons and activities that have been field tested in real classrooms and developed to harness boys and girls unique strengths The workbook is designed to help teachers build a solid foundation of learning and study habits that their students can use in the classroom and at home It covers the key curricular areas and offers proven techniques to make learning no matter what the subject more engaging for all students The workbook is an essential resource for all teachers who want to improve their practice and get the most from all students whatever their gender

Resources in Education ,1992-07 **Science Curriculum Resource Handbook** ,1992

Intersections of Formal and Informal Science Lucy Avraamidou,Wolff-Michael Roth,2016-03-10 Science learning that takes place between and at the intersections of formal and informal science environments has not been systematically reviewed to offer a comprehensive understanding of the existing knowledge base Bringing together theory and research this volume describes the various ways in which learning science in various settings has been conceptualized as well as empirical evidence to illustrate how science learning in these settings can be supported

Resources in Education ,1992 Sg Essentials Geology Wicander,2001-09 **Interdisciplinary Approaches to Teaching Art in High School**

Pamela G. Taylor,2006 The authors present works of art artmaking skills and ways of knowing as catalysts for learning across the traditional disciplinary boundaries in high school Both timely and enduring this is the book that will inspire and support the work of veteran new and pre service high school art teachers The book includes issues theories and practices related to high school curriculum advocacy classroom management assessment cultural understanding idea based instructional strategies team teaching technology visual culture and student initiated learning The authors draw upon their own experiences and those of other high school art teachers to create a motivating and provocative text that challenges readers to critically and continually reflect collaborate read and research their own interdisciplinary thinking teaching and learning processes Publisher

Developing Learning Communities Through Teacher Expertise Giselle O.

Martin-Kniep,2003-10-14 Learn practical methods for developing a collaborative environment where teachers and administrators work together to enhance teachers practices increase student learning and produce valuable school processes

2005 Joint Assembly American Geophysical Union. Joint Assembly,2005 **The Science Teacher** ,2009 **Proceedings [of The] Third International History, Philosophy, and Science Teaching Conference, Minneapolis, Minnesota, October 29 - November 1, 1995** ,1995 **Journal of Geological Education** ,1995 **The School Journal** ,1899

New York School Journal ,1899 Earth Science Samuel N. Namowitz,1953 **Science & Technology Curriculum**

Framework Massachusetts. Dept. of Education, 1997

Bicknell, Albert Edward Winship, Anson Wood Belding, 1896

New England Journal of Education Thomas Williams

Spring Meeting American Geophysical Union. Meeting, 2001

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