

# Curriculum Map

## Earth Science - High School

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

# Earth Science High School Essential Question

**New York State Science Teachers  
Association**

## **Earth Science High School Essential Question:**

**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

### **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

### **Resources for Environmental Literacy** ,2007 Resources for Environmental

Literacy offers a fresh way to enhance your classroom productivity The environmental context it provides can improve students science learning The modules offer appropriate teaching strategies plus high quality resources to deepen your students understanding of key environmental topics *Resources in Education* ,1992 Serves as an index to Eric reports microform **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 **Earth and Mind** Cathryn A. Manduca,David W. Mogk,2006-01-01 **High School** **Department Bulletins** University of the State of New York,1900 Contains proceedings of various teachers associations academic examination papers etc *Special Papers* ,1934 *Nature* ,1878 **Proceedings of the Annual Conference** ,1899 *Bulletin* ,1900 **Supplementary Activities for Enriching the Teaching of Earth Science** Virginia. Department of Education,1978 **The Annual American Catalogue 1886-1900** ,1895 *English Mechanic and World of Science* ,1891 *English Mechanic and Mirror of Science and Art* ,1891 **The Saturday Review of Politics, Literature, Science and Art** ,1894 **General Report on Public Instruction in the Bengal Presidency** ,1874 **Proceedings of the ... Annual Conference** New York State Science Teachers Association,1900 *Guide to Geoscience Departments in the United States and Canada* ,1997

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