

4th Grade Science: Curriculum Map and Pacing Guide 2011/2012

Quarter 1

September 3-October 3

Performance Objective	Student Outcomes	Core Resources	Additional Resources	Assessment
[SC.4.5.8C.2-01] Describe how science and technology (e.g., computers, air conditioning, medicine) have improved the lives of many people.	I can describe how science and technology have improved people's lives.	Unit B-Looking at Ecosystems - Chapter 1 - Science and Technology pp. B42-	Solids, Liquids, Gases , Lesson Technology and Farming , Lesson Tracking Hurricanes , Lesson	
[SC.4.5.8C.3-01] Describe ways various resources (e.g., air, water, plants, animals, soil) are utilized to meet the needs of a population.	I can describe ways that air, water, plants, animals, and soil are used to meet people's needs.	Supplemental resource needed (discoveryeducation.com)	Renewable Energy Sources , Lesson Recycling 1 (Lesson) Recycling 2 (Lesson) Recycling (DE) Teacher's Guide	
[SC.4.5.8C.3-02] Differentiate renewable resources from nonrenewable resources.	I can tell whether resources are renewable or nonrenewable.		Recycling (DE) Video, PG, Blackline masters A Year Expands When it Freezes (demonstration)	
[SC.4.5.8C.3-04] Describe ways in which resources can be conserved (e.g., by reducing, reusing, recycling, finding substitutes).	I can describe ways to conserve resources.	Unit B-Looking at Ecosystems - Chapter 2 - Lesson 3 pp. B66-B73		
[SC.4.5.8C.3-05] Analyze the effect that limited resources (e.g., natural gas, minerals) may have on an environment.	I can discuss the effect on an environment when resources such as natural gas are limited.	Unit C-Earth's Surface - Chapter 2 - Lesson 3 pp. C56-C57		
[SC.4.5.8C.3-02] Evaluate the consequences of environmental occurrences that happen either rapidly (e.g., fire, flood, tornado) or over a long period of time (e.g., drought, melting ice caps, the greenhouse effect, erosion).	I can explain the consequences of things that occur quickly in the environment or over a long period of time.	Unit B-Looking at Ecosystems - Chapter 2 - Lesson 1 pp. B49-B57 *Supplemental resources needed for SC.4.5.8C.3-05 and SC.4.5.8C.3-06		
[SC.4.5.8C.2-04] Compare rapid and slow processes that change the Earth's surface, including: • rapid - earthquakes, volcanoes, floods • slow - wind, weathering	I can compare rapid and slow processes that change the Earth's surface, including: • rapid - earthquakes, volcanoes, floods • slow - wind, weathering			

4th Grade Science Ohio Curriculum Maps

Michal Rosen-Zvi



4th Grade Science Ohio Curriculum Maps:

Resources in Education ,2001 **STEM Road Map** Carla C. Johnson,Erin E. Peters-Burton,Tamara J. Moore,2015-07-03 STEM Road Map A Framework for Integrated STEM Education is the first resource to offer an integrated STEM curricula encompassing the entire K 12 spectrum with complete grade level learning based on a spiraled approach to building conceptual understanding A team of over thirty STEM education professionals from across the U S collaborated on the important work of mapping out the Common Core standards in mathematics and English language arts the Next Generation Science Standards performance expectations and the Framework for 21st Century Learning into a coordinated integrated STEM education curriculum map The book is structured in three main parts Conceptualizing STEM STEM Curriculum Maps and Building Capacity for STEM designed to build common understandings of integrated STEM provide rich curriculum maps for implementing integrated STEM at the classroom level and supports to enable systemic transformation to an integrated STEM approach The STEM Road Map places the power into educators hands to implement integrated STEM learning within their classrooms without the need for extensive resources making it a reality for all students **Research in Education** ,1974 Resources in Education ,1997 **National Union Catalog** ,1956 Includes entries for maps and atlases **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 *Becoming Literate in Mathematics and Science* ,2001 **The National Ground Water Research Act of 1989** United States. Congress. House. Committee on Science, Space, and Technology. Subcommittee on Natural Resources, Agriculture Research, and Environment,1990 **Learning and Leading with Technology** ,1998 **Course of Study in Science** ,1940 **Current Index to Journals in Education** ,2001 **The National Union Catalogs, 1963-** ,1964 **The Education Index** ,1983 Comprehensive Dissertation Index ,1989 *Throckmorton's 1929 Annotated Code of Ohio* Ohio,1929 *Instructor* ,1975-08 **Teaching Science in Elementary and Middle School Classrooms** Joseph S. Krajcik,Charlene Lochbihler Czerniak,Carl F. Berger,2003 This text provides an overview of current science teaching practices for the elementary and middle grades The authors top scholars in the field of science education believe that all children should develop an in depth and meaningful understanding of scientific concepts and processes To achieve this the text utilizes the Project Based Approach Project based science stresses that science teaching should emphasize the active engagement of students in science rather than teachers telling students information Each chapter has several Portfolio Activity boxes that provide active learning experiences or reflections for the student Like the first edition the text includes numerous strategies in each chapter that help both new and experienced teachers understand how to teach science in an active and engaging manner The text also shows teachers how to implement the National Science Education Standards NSES

and constructivist strategies A NSES marginal feature keys content to the standards Moreover this textbook helps teachers learn how to implement all of today s major reforms not just read about them *The Ohio Teacher* Genry Graham Williams,1927 National Union Catalog Library of Congress,1979 Includes entries for maps and atlases **The Grade Placement of Curriculum Materials in the Social Studies** Chester Ora Mathews,1926

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Table of Contents 4th Grade Science Ohio Curriculum Maps

1. Understanding the eBook 4th Grade Science Ohio Curriculum Maps
 - The Rise of Digital Reading 4th Grade Science Ohio Curriculum Maps
 - Advantages of eBooks Over Traditional Books
2. Identifying 4th Grade Science Ohio Curriculum Maps
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an 4th Grade Science Ohio Curriculum Maps
 - User-Friendly Interface
4. Exploring eBook Recommendations from 4th Grade Science Ohio Curriculum Maps
 - Personalized Recommendations
 - 4th Grade Science Ohio Curriculum Maps User Reviews and Ratings
 - 4th Grade Science Ohio Curriculum Maps and Bestseller Lists
5. Accessing 4th Grade Science Ohio Curriculum Maps Free and Paid eBooks

- 4th Grade Science Ohio Curriculum Maps Public Domain eBooks
 - 4th Grade Science Ohio Curriculum Maps eBook Subscription Services
 - 4th Grade Science Ohio Curriculum Maps Budget-Friendly Options
6. Navigating 4th Grade Science Ohio Curriculum Maps eBook Formats
- ePub, PDF, MOBI, and More
 - 4th Grade Science Ohio Curriculum Maps Compatibility with Devices
 - 4th Grade Science Ohio Curriculum Maps Enhanced eBook Features
7. Enhancing Your Reading Experience
- Adjustable Fonts and Text Sizes of 4th Grade Science Ohio Curriculum Maps
 - Highlighting and Note-Taking 4th Grade Science Ohio Curriculum Maps
 - Interactive Elements 4th Grade Science Ohio Curriculum Maps
8. Staying Engaged with 4th Grade Science Ohio Curriculum Maps
- Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers 4th Grade Science Ohio Curriculum Maps
9. Balancing eBooks and Physical Books 4th Grade Science Ohio Curriculum Maps
- Benefits of a Digital Library
 - Creating a Diverse Reading Collection 4th Grade Science Ohio Curriculum Maps
10. Overcoming Reading Challenges
- Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine 4th Grade Science Ohio Curriculum Maps
- Setting Reading Goals 4th Grade Science Ohio Curriculum Maps
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of 4th Grade Science Ohio Curriculum Maps
- Fact-Checking eBook Content of 4th Grade Science Ohio Curriculum Maps
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
- Utilizing eBooks for Skill Development

- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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