



SCIENCE TEACHER RESOURCES

Early Childhood

GENERAL

CMC LA219.K44 2014	What were they thinking?: Promoting elementary learning through formative assessment
CMC LB1139.5.S25.K44 2013	Uncovering student ideas in Primary Science: 25 new formative assessment probes for grades K-2
CMC LB1140.2.H36	Let's Play and Learn
CMC LB1140.2.E42	Practical Guide to Early Childhood Curriculum
CMC LB1140.5.S35.A47	Science Experiments for Young Children
CMC LB1140.5.S25.E67 2012	Highscope Curriculum: Science and Technology
CMC LB1140.5.S35.P38	Helping Your Child Learn Science
CMC LB1140.5.S35.S84 2018	STEM Made Simple: 25 Activities for Preschool Teachers
CMC LB1525.65.Z57 1985	Alpha-Pets: An Interdisciplinary Approach to Incorporating the Alphabet
CMC LB1585.A568 2013	Even more Picture-Perfect Science Lessons, K-5: Using Children's Books to guide inquiry
CMC LB1585.A58 2005	Picture-Perfect Science Lessons, K-5: Using Children's Books to guide inquiry
CMC LB1585.3 .G53 2000	Caldecott Connections to Science
CMC LB1585.L58 2011	Schoolyard Science: 101 Easy and Inexpensive Activities
CMC LB1590.3 .P38 1987	Critical Thinking Handbook : K-3, a Guide for Remodeling Lesson Plans in Language Arts
CMC Q181.B7216 2014	Basics of Data Literacy: Helping your students (and you) make sense of data
CMC Q181 .C414 1997	The Young Child as Scientist : a Constructivist Approach to Early Childhood Science Education
CMC RA440.M43 2011	Comprehensive School Health Education: Totally Awesome Strategies for Teaching Health (Lessons on Environment, Body Systems, etc.)
CMC RJ101.H34	Healthy That's Me

ANIMALS

CMC LB1181.35.A93	F.I.E.L.D.: Five Senses Internalize Experience for Language Development (Unit on Animals)
CMC LB 1528.M39 1988	Themes: Animals
CMC QL645.6A45 2010	Hop into action: The Amphibian curriculum guide for grades K-6

ENVIRONMENT

Text 613.716.H483	Help It! Protect It! Save It! (A collection of environmental messages and activities drawn from posters designed by children in the U.S. Virgin Islands.)
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CMC LB1140.5.S35.B68 1989	Nature for the Very Young: A Handbook of Indoor and Outdoor Activities
CMC QH51.H26 1986	Hands –On Nature: Information and Activities for Exploring the Environment with Children
CMC TD224.N5.B46 1991	Beneath the Shell: A Teacher’s Guide to Nonpoint Pollution and Its Potential Impact on New Jersey Shellfish

Websites

The Lorax Project

<http://www.seussville.com/loraxproject/>

This site raises awareness of environmental issues and helps children to take action to conserve forests and species.

Elementary GLOBE

<https://www.globe.gov/web/elementary-globe/overview>

Elementary GLOBE is designed to introduce students in grades K-4 to the study of Earth system science.

FOOD/NUTRITION

CMC RA 784.K56 2009	Critical thinking and health: TV commercials and nutrition: An integrated media literacy kit for early elementary grades
CMC RJ206 .T43 2007	Team up at home : Team Nutrition activity book, lots of fun activities for the family
CMC TX 355.M96 2011	Serving Up My Plate: A Yummy Curriculum (Grades 1&2, 3&4, 5&6)
CMC TX364.G66 1974	Creative Food Experiences for Children
CMC TX364 .P38 2003	Healthy foods from healthy soils : a hands-on resource for educators

OCEANS

CMC LB1523.S57	Total Action: Ideas and Activities for Teaching Children Ages 5-8 (Water, Water, Everywhere pp. 93-143)
CMC LB1528.M396 1998	Themes: The Sea and other Water

PHYSICS, CHEMISTRY, BIOLOGY

CMC QC19.5.T39 1995b	Teaching Physics with Toys: Activities for Grades K-9
CMC QC753.2.K445 2014	Uncovering student ideas in Physical Science: 39 new Electricity and Magnetism formative assessment probes
CMC QD40.T42 1995	Teaching Chemistry With Toys: Activities for Grades K-9
CMC QH51.K22 1992	Bridges to the Natural World: A Natural History Guide for Teachers

Elementary

GENERAL

CMC LA219.K44 2014	What were they thinking?: Promoting elementary learning through formative assessment
CMC LB1050 .B4	Reading in the Science Classroom
CMC LB1525.65.Z57 1985	Alpha-Pets: An Interdisciplinary Approach to Incorporating the Alphabet
CMC LB1575.8 .M66	Children's Literature in the Science Curriculum.

CMC LB1585.A568 2013	Even more Picture-Perfect Science Lessons, K-5: Using Children's Books to guide inquiry
CMC LB1585.A58 2005	Picture-Perfect Science Lessons, K-5: Using Children's Books to guide inquiry
CMC LB1585 .C65 1984	COMETS: career oriented modules to explore topics in Science
CMC LB1585 .H36 1994	Hands-on elementary science project leader's manual
CMC LB1585.3 .G53 2000	Caldecott Connections to Science
CMC LB1587.S5.S86 2001	Sunwise: A School Program that Radiates Good Ideas (Interdisciplinary Lessons about Sun Safety and the Ozone Layer)
CMC Q181.B7216 2014	Basics of Data Literacy: Helping your students (and you) make sense of data
CMC Q181 .P355 1994	A Teacher's Science Companion
CMC Q182.3 .L535 1991	Invitations to Science Inquiry
CMC Q182.3 .S33 1989	Science Experiments on File
CMC QL52.6.K58 1993	Creepy Crawlies and the Scientific Method: More Than 100 Hands-On Experiments for Children
CMC RA440.M43 2011	Comprehensive School Health Education: Totally Awesome Strategies for Teaching Health (Lessons on Environment, Body Systems, etc.)
CMC RJ101.H34	Healthy That's Me

ANIMALS

CMC LB 1528.M39 1988	Themes: Animals
CMC QL645.6A45 2010	Hop into action: The Amphibian curriculum guide for grades K-6

ASTRONOMY

CMC QB500.262.S63 1989	Earth, Moon and Stars: Teacher's Guide Grades 5-9
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ENVIRONMENT

CMC QH51.K22 1992	Bridges to the Natural World: A Natural History Guide for Teachers
CMC QH53.R78 1998	Ten Minute Field Trips: A Teacher's Guide to Using School Grounds for Environmental Studies
CMC QH76.T29 1998	Teacher's Packet to Help Teachers and Students Learn More About Endangered Species
CMC QH541.2 C876/	Environmental Education: Scope and Sequence for Grades 3-6
CMC QH541.2.C877	
CMC TD224.N5.B46 1991	Beneath the Shell: A Teacher's Guide to Nonpoint Pollution and Its Potential Impact on New Jersey Shellfish
CMC TX364 .P38 2003	Healthy foods from healthy soils : a hands-on resource for educators

FOOD/NUTRITION

CMC RA 784.K56 2009	Critical thinking and health: TV commercials and nutrition: An integrated media literacy kit for early elementary grades
CMC TX364.G66 1974	Creative Food Experiences for Children
CMC TX359.H43 2011	Healthier Middle Schools: Everyone can help
CMC TX364 .P38 2003	Healthy foods from healthy soils : a hands-on resource for Educators

PHYSICS, CHEMISTRY, BIOLOGY, EARTH SCIENCE

Juv.363.34.E81L	Learning About the Effects of Natural Events with Graphic Organizers
Juv.363.35.E81L	Learning About the Effects of Weather with Graphic Organizers
Juv.551.3.E79L	Learning About the Rocks, Weathering and Erosion With Graphic Organizers
Juv.551.6.J13L	Looking Up at the Sky with NOAA (water cycle, clouds, thunderstorms & lightning, satellites.)
CMC QC19.5.T39 1995b	Teaching Physics with Toys: Activities for Grades K-9
CMC QC25.M34 1968	Physics Experiments for Children
CMC QC30.B623 2014	Using Physical Science gadgets and gizmos, Grades 6-8
CMC QC31 .S34	The Science connection: amusing physics
CMC QC753.2.K445 2014	Uncovering student ideas in Physical Science: 39 new Electricity and Magnetism formative assessment probes
CMC QC981.3.M36 1990	Simple Weather Experiments With Everyday Materials
CMC QD40.T42 1995	Teaching Chemistry With Toys: Activities for Grades K-9
CMC QE534.2 .E18 1988	Earthquakes: a teacher's package for K-6
CMC QH316.5.V36 1990	Biology for Every Kid: 101 Easy Experiments That Work
CMC QP41 .L57 1996	Literacy in a Science Context: A Hands-on Human Physiology Curriculum
CMC TX 364.M37	Nutrition in a Changing World
CMC Q181.Z55 2004	Dinah Zike's Big Book of Science for Elementary K-6

Websites

Exploratorium

<http://www.exploratorium.edu/educate/index.html>

Secondary

GENERAL

Juv. 500.T443s	The Sky's the Limit: Stories of Discovery by Women and Girls
Juv. 925.O89d	Dignifying Science: Stories about women scientists
Juv. 925.3.O89t	Two fisted Science
LB1575.8 .A84 1993	The Astonishing curriculum: integrating science and humanities through language
CMC LA219.K44 2014	What were they thinking?: Promoting elementary learning through formative assessment
CMC Q181.Z55 2001	Dinah Zike's Big Book of Science for Middle and High School
CMC Q181.B7216 2014	Basics of Data Literacy: Helping your students (and you) make sense of data
CMC Q180.A1.H37 2011	STEM Student Research Handbook (covers high school research science projects from the inception to conclusion. Each section contains learning objectives, student handouts, rubrics, etc.)
CMC QH26.W55 1997	Women Life Scientists: Past, Present, and Future:
CMC RA440.M43 1991	Connecting Role Models to the Classroom Curriculum Comprehensive School Health Education: Totally Awesome Strategies for Teaching Health (Lessons on Reproduction, Environment, Body Systems, etc.)

ASTRONOMY

CMC QB500.262.M34 1995 Make Space for Space 1995

ENVIRONMENT

CMC TD224.N5.B46 1991 Beneath the Shell: A Teacher's Guide to Nonpoint Pollution and Its Potential Impact on New Jersey Shellfish

BIOLOGY/HEALTH

Juv. 612.661.B772 1994 Changes in You and Me: A Book About Puberty Mostly for Boys
Juv. 612/6.L888p 2001 Period
Juv. 613.M478t Teenage Body Book

OCEANS

CMC QH91.5.O734 Project Marimates

PHYSICS, CHEMISTRY, BIOLOGY, EARTH SCIENCE

Juv. 621.3.C4667e 1991 Usborne Young Scientist :Electricity
Juv.741.50.O893f Fallout: J. Robert Oppenheimer, Leo Szilard,
and the Political Science of the Atomic Bomb

CMC QC19.5.T39 1995b Teaching Physics with Toys: Activities for Grades K-9
CMC QC30.B624 2014 Using Physical Science gadgets and gizmos, Grades 9-12
CMC QC 173.3.I59 1997 Investigating Solids, Liquids and Gases With Toys: States of Matter
and Changes of State: Activities for Middles School Grades
CMC QC753.2.K445 2014 Uncovering student ideas in Physical Science: 39 new Electricity and
Magnetism formative assessment probes
CMC QD40.T42 1995 Teaching Chemistry With Toys: Activities forGrades K-
9
CMC QD43.B55 1995 A Demo A Day: A Year of Chemical Demonstrations
CMC QD43.S5 1983 Chemical Demonstrations: A handbook for Teachers of
Chemistry
CMC QD47.C43 1997 Chemistry in the National Science Education Standards:
A Reader and Resource Manual for High School
Teachers
CMC QE42 .E27 1990 Earth Science Investigations



Professional

CMC Q183.3.A1.B78 2014 Introducing Teachers & Administrators to the NGSS: A Professional Development Facilitator's guide

WEBSITES

Khan Academy <http://www.khanacademy.org>
Sixty Symbols - Physics and Astronomy Videos. <http://www.sixtysymbols.com/>
The Virtual Lab Book, College of Charleston. <http://delliss.people.cofc.edu/virtuallabbook/>

ONLINE RESOURCES

(accessible from the Library Home Page
<http://www.njcu.edu/Guarini/>
under -Databases by Title)

Facts on File

Following databases available:

- ***Curriculum Resource Center***: Grades K-12. Science experiments and diagrams
- ***Science Online***: *Science On-line* is an extensive collection of hundreds of science experiments; over 2,500 diagrams, 14,000 definitions, 300 biographies, 950 essays and 5,000 timeline entries and videos related to the sciences: Biology, Chemistry, Computer Science, Earth Science, Environmental Science, etc., Forensic Science, Marine Science, Mathematics, Physics, Space and Astronomy, Weather and Climate.