

RCSS Middle Grade Science Resources

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General Resources for Middle Grades Science Teachers

DPI Middle Grades Science Strategies

<http://www.ncpublicschools.org/docs/curriculum/science/middlegrades/middlegradesstrategies.pdf>

6th Grade Essential Standards Unpacked Content

<http://scnces.ncdpi.wikispaces.net/file/view/6.pdf/449657560/6.pdf>

DPI Science 6th Grade Support Document

<http://www.ncpublicschools.org/docs/curriculum/science/middlegrades/6thsciencesupport.pdf>

7th Grade Essential Standards Unpacked Content

<http://scnces.ncdpi.wikispaces.net/file/view/7.pdf/449657590/7.pdf>

DPI Science 7th Grade Support Document

<http://www.ncpublicschools.org/docs/curriculum/science/middlegrades/7thsciencesupport.pdf>

8th Grade Essential Standards Unpacked Content

http://scnces.ncdpi.wikispaces.net/file/view/Unpacked_Content_Grade8Science_RevisedSeptember2012.docx.pdf/368725266/Unpacked_Content_Grade8Science_RevisedSeptember2012.docx.pdf

DPI Science 8th Grade Support Document

<http://www.ncpublicschools.org/docs/curriculum/science/middlegrades/8thsciencesupport.pdf>

Curriculum Topic Studies

<http://scnces.ncdpi.wikispaces.net/Customized+Curriculum+Topic+Study+Guides>

DPI Science Strand Maps

<http://scnces.ncdpi.wikispaces.net/Strand+Maps>

DPI Formative Assessment Probe Alignments for Middle Grades (Page Keeley)

<https://www.dropbox.com/s/047zvvx6wkn7or/Middle%20School%20Probe%20Alignment.pdf>

<http://scnces.ncdpi.wikispaces.net/Formative+Assessment+Probe+Alignment>

DPI Support Documents for Science Essential Standards

<http://scnces.ncdpi.wikispaces.net/Race+to+the+Top+Support+Tools>

DPI 6th and 7th Science Common Exam and 8th Science EOG Assessment Examples

http://scnces.ncdpi.wikispaces.net/file/view/Assessment%20Examples_6-8%20Science_July2012.pdf/356231194/Assessment%20Examples_6-8%20Science_July2012.pdf

DPI Glossary of Terms

<http://scnces.ncdpi.wikispaces.net/file/view/Glossary%20Of%20Terms.pdf/313633078/Glossary%20Of%20Terms.pdf>

Common Core Literacy Standards for Science 6-12

http://scnces.ncdpi.wikispaces.net/file/view/Common%20Core_ELA%20%26%20Literacy.pdf/371957560/Common%20Core_ELA%20%26%20Literacy.pdf

Secondary Science Literacy Resources

<http://scnces.ncdpi.wikispaces.net/Secondary+Literacy+Resources>

DPI Science Units from 2004 Standards Grades 6-8

<http://scnces.ncdpi.wikispaces.net/2004+SCOS+Resources+K-8>

DPI Science Wiki

<http://scnces.ncdpi.wikispaces.net/>

Info on Next Generation Science Standards

<http://scnces.ncdpi.wikispaces.net/Next+Generation+Science+Standards>

NC Science Teachers Association

<http://www.ncsta.org/>

DPI Live Binder k-12 Science

<http://www.livebinders.com/play/play?id=122973>

Science Laboratory Safety

<http://scnces.ncdpi.wikispaces.net/Science+Laboratory+Safety>

Discovery Education – videos, lessons, activities

<https://randolphnc.discoveryeducation.com/>

NC WiseOwl

<http://www.ncwiseowl.org/zones/parent/index.htm>

Home Base Schoolnet – Resources, lessons, assessment, PD https://homebase.schoolnet.com/760/
Mr. Parr Science Songs – a collection of songs about various science concepts put to popular music http://wiki.fms.k12.nm.us/groups/worksheets/wiki/Obafa/Mr_Parr_Science_Songs.html?sm_au=iVVtRZ234WTrM75P
Middle School Science – a collection of lessons and ideas http://www.middleschoolscience.com/
The Science Spot – Middle school science teacher and student resource http://www.sciencespot.net/
Science Class – Science teacher resource – lessons, PowerPoints, and organizational resources http://www.science-class.net/
My Science Box – hands on science curriculum units incorporating lessons, activities, assessments, field trips, and resources http://www.mysciencebox.org/
Science Olympiad http://soinc.org/
Pre-Test for Science Misconceptions http://www.darylscience.com/quiz.htm
National Geographic Education Resources http://education.nationalgeographic.com/education/teaching-resources/?ar_a=1
Science Stories http://www.storybehindthescience.org/
NY Times Science Section http://www.nytimes.com/pages/science/index.html
NPR's Science Friday http://www.sciencefriday.com/
Science 360 http://news.science360.gov/files/
Science News for Kids https://student.societyforscience.org/sciencenews-students
Achieve 3000 Articles https://portal.achieve3000.com/

Earth Science Resources

Geography 4 Kids: Earth's Structure, Hydrosphere, Atmosphere, Biosphere, BGC Cycles, Climates http://www.geography4kids.com/
The Crayon Rock Cycle http://www.exo.net/~emuller/activities/Crayon-Rock-Cycle.pdf
Earth's Layers Foldable http://mjksciteachingideas.com/pdf/EarthFoldable.pdf
Geoscience News and Information http://geology.com/teacher/
Understanding Minerals and Mining http://www.mineralseducationcoalition.org/
US Geologic Service http://education.usgs.gov/
Shoe Box Planetarium Project http://www.middleschoolscience.com/shoeboxplanetarium.htm
World Wide Telescope http://www.worldwidetelescope.org/
Astronomy Magazine http://www.astronomy.com/
ASU Mars Education http://marsed.asu.edu/index.php

Windows to the Universe http://www.windows2universe.org/
The Size and Distance of Planets http://cse.ssl.berkeley.edu/AtHomeAstronomy/activity_10.html
NASA http://www.nasa.gov/
Marcia's Earth Science http://mjkscteachingideas.com/

Physical Science Resources
Physics 4 Kids: Motion, Heat and Thermodynamics, Electricity and Magnetism, Light, Modern Physics http://www.physics4kids.com/
Periodic Table Families http://www.middleschoolscience.com/periodictablefamilies.pdf
Periodic Table http://scnces.ncdpi.wikispaces.net/file/view/g8periodictable.pdf/449665290/g8periodictable.pdf
Web Elements – Online Periodic Tables http://www.webelements.com/
Bond with a Classmate http://www.middleschoolscience.com/bonding.pdf
Cabbage Juice Indicator – pH http://www.middleschoolscience.com/cabbage.htm
The pH Factor http://www.miamisci.org/ph/
Alien Juice Activity http://www.middleschoolscience.com/alienjuicebar.pdf
Chemistry in a Bag Demo http://www.middleschoolscience.com/bag.htm
Mystery Powder Lab http://www.middleschoolscience.com/myspow.html
Flame Test Demo http://imagine.gsfc.nasa.gov/docs/teachers/lessons/xray_spectra/student-worksheet-flame.html
Balancing Chemical Equations http://www.middleschoolscience.com/balance.html
Balancing Act http://www.sciencespot.net/Media/blncact.pdf
Tutorial on Balancing Equations http://users.wfu.edu/ylwong/balanceeq/balanceq.html
Amazing Chemistry Teacher Resources http://www.nclark.net/Chemistry
SMILE Chemistry Labs http://mypages.iit.edu/~smile/cheminde.html
Adopt an Element http://www.sciencespot.net/Media/adtelempjt.pdf
Element Baby Book http://www.sciencespot.net/Media/elementbabybook.pdf
A Tasty Solution http://www.sciencespot.net/Media/tastysoln.pdf
Can Ripper Demo http://www.darylscience.com/Demos/CanRipper.html
Newton's Challenge Lab http://www.sciencespot.net/Media/newtonlab.pdf
Fortune Teller Fish

http://www.darylscience.com/Demos/Fortunefish.html
Newton's First Law Quickies http://www.darylscience.com/Demos/1stLawQuickies.html
Phonebook Friction http://www.darylscience.com/Demos/PhoneBook.html
Physics Behind Movie Stunts http://www.darylscience.com/Demos/StuntMen.html
Hypercoaster http://www.darylscience.com/Demos/RollerCoaster.html
Inca Engineering http://www.darylscience.com/Demos/IncaBuilding.html
Hot Wheelin' Physics http://www.sciencespot.net/Media/hotwheel.pdf
Accelerometer http://www.sciencespot.net/Media/phys_accellab.pdf
Peggy E. Schweiger Physics Page http://teachertech.rice.edu/Participants/pschweig/lessonlink.html
University of Virginia Experiments http://galileo.phys.virginia.edu/Education/outreach/8thgradesol/abcActivitiesList.htm
Pro Teacher Physics http://www.proteacher.com/110015.shtml
SMILE Physics http://mypages.iit.edu/~smile/physinde.html

Life Science Resources

Biology 4 Kids: Scientific Studies, Cell Structure and Function, Microorganisms, Plants, Invertebrates, Vertebrates, Animal Systems http://www.biology4kids.com/
The Cell – An Image Library http://www.cellimagelibrary.org/
Genetic Science Learning Center http://learn.genetics.utah.edu/
Teaching Genetics http://teach.genetics.utah.edu/
Body Browser – 360 Degree View of Human Body http://www.zygotebody.com/
Medical Animation Library http://www.penmedicine.org/health_info/animationplayer/
Interactive DNA http://www.learner.org/interactives/dna/index.html
Essentials for Life Science Teachers http://www.learner.org/courses/essential/life/
Teacher Page – Life Science http://schools.nyc.gov/Teachers/Resources/Classroom/Science/LifeScience/default.htm
Life Science Teachers http://www.science-teachers.com/life.htm