Recommended Internet Resources for Teaching Science

Compiled by Dr. Julie Lambert
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Current Science News

New York Times

Misconceptions in Science

Common Science Misconceptions


American Association for the Advancement of Science - Triple A-S" (AAAS)
an international non-profit organization dedicated to advancing science around the world by serving as an educator, leader, spokesperson and professional association

- Home Page
- http://www.aaas.org/
- Project 2061
- http://www.project2061.org/
- Benchmarks Online
Brain-Based Education

Dr. Medina’s Brain Rules Book
•  http://www.brainrules.net/

Brain Connection
•  http://www.brainconnection.com/

Article on Brain-based Education
•  http://www.pdkintl.org/kappan/k_v89/k0802jen.htm

Neuroscience for Kids
•  http://faculty.washington.edu/chudler/neurok.html
Nature of Science

• Nature of Science
  http://evolution.berkeley.edu/evolibrary/article/0_0_0/nature_01

• Understanding Science: How Science Really Works
  http://undsci.berkeley.edu/index.php

• Misconceptions about the Nature of Science
  http://undsci.berkeley.edu/teaching/misconceptions.php
Games and Experiments

• ZOOM! Science Games/Experiments
  http://pbskids.org/zoom/games/index.html

• Jeff’s Free Games and Utilities Website – Games (See the PowerPoint Jeopardy Game. You can write your own questions and answer slides.)
  http://people.uncw.edu/ertzbergerj/msgames.htm
Integrating Literacy and Trade Books in Science

Elementary Science Integration Projects

http://www.esiponline.org/index.html
General Science Lessons for Teachers

Discovery School
http://school.discoveryeducation.com/

Pulse of the Planet – Lessons and Audioclips
http://www.pulseplanet.com/

Exploratorium – Museum Resources for Inquiry-Based Science Teaching, San Francisco, CA
http://www.exploratorium.edu/

Good Lessons for General Science
http://www.iit.edu/~smile/index1.html

National Geographic Kids
http://kids.nationalgeographic.com/

The Science Spot
http://sciencespot.net/
Videos for Science Teaching

Brain Pop – Videos for Science Teaching

http://www.brainpop.com/science/

National Geographic Videos

http://video.nationalgeographic.com/video/
Physical Science

TOPS Learning Systems
Lesson Plans for Physical Science

http://topscience.org/
Great Site for Science Experiments and Videos

http://www.stevespanglerscience.com/experiments/
Earth Science

Digital Library for Earth Systems Education
http://www.dlese.org/library/

USGS – United States Geological Survey – Geology Resources for Educators
http://education.usgs.gov/

Tasa Graphics – Earth Science Interactive CD-Roms and online Activities
http://www.tasagraphicarts.com/

Weather Watcher – Scholastic
http://teacher.scholastic.com/activities/wwatch/gather_data/

Weather and Climate Online Magazine for K-5 Teachers
Marine Science

Sea Education Association – Marine Science Lesson Plans
http://www.sea.edu/academics/k12.asp

SeaWorld – Teacher Guides and Lesson Plans
http://www.swbg-animals.org/just-for-teachers/guides/index.htm

Marine Science Lessons and Resources and Professional Development Opportunities
http://www.vims.edu/bridge/

NOAA – National Oceanic and Atmospheric Administration
http://www.education.noaa.gov/
Space and the Moon

NASA – Space, Earth Systems, Climate Research and Educator Resources
http://www.nasa.gov/audience/foreducators/blast-back-to-school.html

Current Night Sky
http://www.space.com/spacewatch/sky_calendar.html

Virtual Reality Moon Phases

The Night Sky Live
http://nightskylive.net/index.php

Tonight’s Sky
http://amazing-space.stsci.edu/tonights_sky/

Night Sky Network
http://nightsky.jpl.nasa.gov/planner.cfm

Moon Phases
http://home.hiwaay.net/~krcool/Astro/moon/moonphase/

Moon Phases
http://www.enchantedlearning.com/subjects/astronomy/moon/Phases.shtml
Global Climate Change

Carbon cycle game
http://www.windows.ucar.edu/earth/climate/carbon_cycle.html

EPA Climate Change and Global Warming: Interactive website
http://www.epa.gov/climatechange/kids/carbon_cycle_version2.html

Interactive diagram
http://www.seed.slb.com/content.aspx?id=2314

Nature Conservancy’s Carbon Calculator
http://www.nature.org/initiatives/climatechange/calculator/

Global Footprint Network

Inconvenient Truth Curriculum
http://www.climateclassroom.org/

Journey North – Global Study of Wildlife Migration and Seasonal Change
http://www.learner.org/jnorth/
http://www.worldviewofglobalwarming.org/
Global Climate Change

Worldview of Global Warming
http://www.worldviewofglobalwarming.org/

Slide Show – What’s Up With Global Warming?
http://online.nwf.org/site/PageNavigator/ClimateClassroom/cc_teachers_slideshow
Environmental Science

Facing the Future – Lessons and Resources for Teaching About Global Issues – Science and Society and New Math Curriculum!
http://www.facingthefuture.org/default.aspx

Roots and Shoots (Jane Goodall Institute) – Service Learning and Lesson Plans
http://www.rootsandshoots.org/

Environmental Protection Agency – Lesson Plans and Resources
http://www.epa.gov/teachers/

Population Connection
http://www.populationeducation.org/

Earth Portal and Earth Encyclopedia on Climate Change
http://www.earthportal.org/

Rainforest Action Network – Information
http://ran.org/
Environmental Science (Continued)

One Million Acts of Green
http://www.greennexxus.com/omaog/us/education.aspx#f1

The Story of Stuff
http://www.storyofstuff.com/

National Lab Day
http://www.nationallabday.org/
Fun with Dry Ice (Frozen Carbon Dioxide)

The Saturday Scientists
http://www.west.net/~science/co2.htm

Deep Science – Dry Ice Day
http://www.deepscience.com/experiments/dryiceday.html

Dry Ice Experiments
http://www.buzzle.com/articles/dry-ice-experiments.html

How Stuff Works
http://www.howstuffworks.com/question264.htm
Water Cycle Websites

Readers’ Theater Script: Water Cycle Adventure
http://www.enchantedlearning.com/rt/weather/watercycle.shtml

Narrated Animation of the Water Cycle

EPA Water Cycle Animation
http://epa.gov/climatechange/kids/water_cycle_version2.html
http://www.crickweb.co.uk/assets/resources/flash.php?&file=watercycle

Water Cycle Matching Game
http://www.nwlg.org/pages/resources/geog/hydro_cycle/hydro/cycle.htm

USGS – The Water Cycle
http://ga.water.usgs.gov/edu/watercycleevaporation.html

NASA Aquarius Lessons
http://aquarius.nasa.gov/water_cycle.php
Webquests

Guided Inquiry-Based Lessons Using the Internet for all Subjects and Grades Levels.

http://webquest.sdsu.edu
Evaluating Websites

http://school.discoveryeducation.com/schrockguide/eval.html
Resources to Improve Teachers’ Scientific Knowledge

Annenberg Teacher Resources
http://www.learner.org/resources/browse.html?discipline=6

PBS Teachers
http://www.pbs.org/teachers/sciencetech/

Extreme Science
http://www.extremescience.com/site_map.htm
Grant Information

Guidelines for Writing a Proposal


Toyota Tapestry Grants

• [http://www.toshiba.com/tafpub/jsp/home/default.jsp](http://www.toshiba.com/tafpub/jsp/home/default.jsp)
Favorite Supply Companies

Museum Products
www.museumproducts.net
1-800-395-5400

MarineLab’s Leave Only Bubbles
www.leaveonlybubbles.com
1-800-741-1139

Science Kit & Boreal Laboratories
http://sciencekit.com/elementary/c/1692/cm_sp=header--1207edit--elem/
1-800-828-7777

Educational Innovations
Professional Organizations and Other Resources

NSTA – National Science Teachers Association
http://www.nsta.org/

National Marine Educators Association
http://www.marine-ed.org/

Centers for Ocean Sciences Education Excellence
http://www.cosee.net/

The Globe Program
http://www.globe.gov/globe_flash.html

Ocean Explorer – Explorations and Lesson Plans
http://oceanexplorer.noaa.gov/welcome.html
Current References on Technology

New Technology Counts 2009 Report


International Society for Technology in Education

- http://www.iste.org/
Please recommend any of your favorite Internet sites to share!

To be Continued........