



*"If the only tool you have is a hammer.....
everything around you looks like a nail."*

Science 2003

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presented by
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Innovative staff development:
Technology Applications, Multiple Intelligences,
Curriculum Integration and Creative Education.
Let's see what we can do for your staff!

This issue is an update of past Science editions. You may also want to look up previous issues on Biology, Chemistry, Earth Sciences, Inventions, Inventors, NASA and Physics in the newsletter archive.

Next month we will launch the fourth year of registration for the elditarod project <http://surfaquarium.com/elditarod.htm> ~ it's a great way to motivate your students across the curriculum during the gray days of late Winter. Check it out!

And now, top links online for integrating technology into Science *and* for supporting the standards of your Science curriculum. For additional recommendations be sure to visit my Science pages at <http://surfaquarium.com/teachSCI.htm> Thanks to Jerry Blumengarten for his recommendations!

You can never have too many resources at hand when you're an innovative teacher!

Amusement Park Physics - <http://www.learner.org/exhibits/parkphysics/>

Students design their own roller coasters to discover how physics laws come into play in amusement park ride design.

Aspire - <http://sunshine.chpc.utah.edu/studentaside/home.html>

Aspire offers fun interactive labs and inquiry-based content; check out the Virtual Planetarium while you're there!

Atoms Family - <http://www.miamisci.org/af/sln/>

Atomic theory brought to you by the Miami Museum of Science with every ghost, ghoul, monster and zombie looking for work.

Bee Eye - <http://cvs.anu.edu.au/andy/beye/beyehome.html>

Andrew Giger offers this fascinating study which allows participants to experience the world through the eyesight of a honey bee.

Black Hole Gang - <http://www.blackholegang.com/>

Online science fiction with built-in Science applications including hidden links about Einstein, bats and rainforests.

Boston Museum of Science - http://www.mos.org/exhibits/online_exhibits.html

These online exhibits cover a wide range of Science topics, from Aging and Ice to Robots and Weather.

Build It & Bust It - <http://library.thinkquest.org/11686/?tqskip1=1&tqtime=1102>

This ThinkQuest entry serves as an engineering site in which you will design and test your own structures online and share what you learn with others.

Chem4Kids - <http://www.chem4kids.com/>

Designed for students, covering topics such as Matter, Atoms, Elements, Reactions, Key Topics and Mathematics.

Columbia Virtual Body - <http://www.medtropolis.com/VBody.asp>

Excellent Shockwave-based interactive tour of the human body: nervous, digestive, circulatory and skeletal systems.

Cool Science for Curious Kids - <http://www.hhmi.org/coolscience/>

Here's biology in human terms that elementary children can understand and relate to. Try "Eat roots? Eat stems? NO WAY!!! Leap into our plant-parts salad" as a sample.

Delights of Chemistry - <http://www.chem.leeds.ac.uk/delights/>

This is a collection of three dozen experiments and demonstrations, two photo libraries and streaming chemistry video.

Earth Floor: Biomes - <http://www.cotf.edu/ete/modules/msese/earthsysflr/biomes.html>

Virtual tour of a tropical rain forest, tropical savannah, mid-latitude deciduous forest, desert, subarctic taiga and polar tundra.

Exploratorium - <http://www.exploratorium.edu/>

The preeminent online interactive site for demonstrating science concepts - fascinating for learners of all ages.

Franklin Institute - <http://www.fi.edu/explore.html>

Excellent collection of online resources and activities designed to create curiosity and promote science in everyday life.

Inventions - <http://www.nationalgeographic.com/features/96/inventions/>

Made by National Geographic, this site invites students to help test out the workings of a new contraption while working through five different activities.

Invention Dimension - <http://web.mit.edu/invent/invent-main.html>

MIT-based site promoting the spirit of invention, with games, resources, an inventor's handbook and the Inventor of the Week.

The Lab - <http://www.abc.net.au/science/default.htm>

The Lab is the Australian Broadcasting Corporation's online gateway to science, including original material, news, features and forums.

Mad Sci Network - <http://www.madsci.org/>

Great database full of questions answered by scientists who are experts in their field from the Washington University at St. Louis.

Make a Splash with Color - http://www.thetech.org/exhibits_events/online/color/intro/

The Tech offers these pages on light theory in three sections: : Talking about Color, The Lighter Side of Color, and An Eye on Color.

Making Waves - <http://www.smgaels.org/physics/home.htm>

Guide to sound and electromagnetic radiation including Sound, Radio, Microwave, Infrared and Ultraviolet Light, Lasers, X - Rays, and Gamma Rays.

Nanoworld Image Gallery - http://www.uq.edu.au/nanoworld/images_1.html

High quality magnified microscopic images of blood, cells, animals, diseases, microbes, pollen, yeast, molds and plant and animal tissue.

NASA's Origins - <http://origins.jpl.nasa.gov/>

Examines questions of the origins of our universe; excellent graphics and (of course) first rate information.

NASA's Quest - <http://quest.arc.nasa.gov/>

Made for teachers and students, includes online projects and events which fill your classroom full of excitement and higher level thinking.

National Earthquake Information Center - <http://wwwneic.cr.usgs.gov/>

Also from U.S.G.S., this is an online archive of current and general earthquake data, as well as station codes and coordinates.

Neptune's Web - <http://pao.cnmoc.navy.mil/Educate/Neptune/Neptune.htm>

Sponsored by the Naval Meteorology and Oceanography Command: facts, quizzes, searches, ask an oceanographer, teacher resources.

Oregon Museum of Science and Industry - <http://www.omsi.edu/explore/online.cfm>

From BusyTown and Engineer It to WaterWorks and Virtual Tours, this site offers all kinds of online experiences for experiencing Science.

PBS: Science & Nature - <http://www.pbs.org/science/>

Highlights and background information on every Science-based PBS program on the air; check out the Science for the Classroom link.

pH Factor - <http://www.miamisci.org/ph/>

This Miami Museum of Science site introduce acids and bases to elementary and middle school students.

Physics 2000 - <http://www.colorado.edu/physics/2000/index.pl>

An interactive journey through modern physics, including segments on Einstein's Legacy and the Atomic Lab.

Plane Math - <http://www.planemath.com/>

This site has the unique goal of improving access to mathematics and aeronautics curricula materials for 4th-7th graders with physical disabilities.

Rockhounds - <http://www.fi.edu/fellows/payton/rocks/>

Geology with a canine twist - lots of good information at a kid's level plus nicely done teacher lessons and support materials.

Science 4 Kids - <http://www.ars.usda.gov/is/kids/>

From the USDA Agricultural Resource Service, all kinds of kid-appropriate links on the work done by scientists in the life sciences.

Science Junction - <http://www.ncsu.edu/sciencejunction/>

Billed as a 'science cybercommunity for teachers, students and researchers of Science', this site seeks to make connections between Science and everyday life.

Science Museum of Minnesota - <http://www.smm.org/explorescience/websites/>

Well-designed and nicely formatted original online exhibits and activities covering ten high-interest Science topics.

Sea Web - <http://www.seaweb.org/>

"A multimedia public education project designed to raise awareness of the world ocean and the life within it."

Seeing, Hearing and Smelling the World - <http://www.hhmi.org/senses/>

A multitude of Science topics explored through an examination of the brain and our senses; sophisticated subject matter.

Soundry - <http://www.abc.lv/thinkquest/tq-entries/19537/main.html>

An exciting, interactive, and educational web site about sound, the Soundry aims to promote enthusiasm and knowledge of sound.

Space Place - <http://spaceplace.jpl.nasa.gov/index.shtml>

NASA's salute to elementary space science with an emphasis on hands-on activities that make sophisticated concepts meaningful.

Space Link -

<http://spacelink.nasa.gov/Instructional.Materials/NASA.Educational.Products/>

More of NASA's wealth: Briefs, Educator's Guides, Educational Programs, Wallsheets, Lithographs, Slide Sets and Videotapes.

Ultimate Science Fair Resource - <http://www.scifair.org/>

Doing A Science Fair Project, Project Hints, Writing a Report, Display Hints, Project Categories, "How To" Links, Project Ideas and an Idea Board all in one location.

USGS Learning Web - <http://www.usgs.gov/education/>

Kid-friendly format presenting data and activities from the U.S.G.S.; check out FrogWatch and Exploring Caves.

Volcano World - <http://volcano.und.nodak.edu/>

This is a highly graphic and greatly detailed watch on volcanic activity around the world, as well as archives.

Weather Classroom - <http://www.weatherclassroom.com/index.php>

The Weather Classroom presents all kinds of online interactive resources for students and teachers; worth investigating.

Find More Great Resources at <http://surfaquarium.com/it.htm>

Next Month's Topic: "Iditarod"

You can email URL's of high quality sites which may be of interest to our readers as well as new topic ideas and input and feedback to walter@surfaquarium.com

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