

Teacher Resources

- Discovery Channel School's free Puzzlemaker creates custom crossword, word search, mazes and math puzzles for any grade level or interest. Tie them to history, science or holiday themes using special vocabulary lists, then colorize them with clip art and print them out.
- Web: <http://www.puzzlemaker.com>
- For in-class use or extra practice at home, the **National Library of Virtual Manipulatives for Interactive Mathematics** provides plenty of free problems to solve online. Problems are arranged in categories: Number & Operations, Algebra, Geometry, Measurement and Data Analysis & Probability.
- Web: <http://matti.usu.edu/nlvm/nav/vlibrary.html>
- Become a better Web searcher with this free **Bare Bones 101 tutorial on Internet Searching** from the **University of South Carolina**. The lessons—suitable for teachers and students alike—are quick and focused. Learn the difference between search and metasearch engines, library gateways and subject directories. Understand Boolean logic and proximity operators.
- Web: <http://www.sc.edu/beaufort/library/pages/bones/bones.shtml>
- Science teachers can receive free a high school science curriculum on DVD, CD-ROM, or videotape from the Howard Hughes Medical Institute. Topics include genetics, microbiology, biology and more. Order from the institute's online catalog.
- Web: <http://catalog.hhmi.org>
- Join the **WGBH Foundation's Teachers' Domain** to access a wealth of free multimedia science resources. Search by topic and grade level for video clips, sound clips, images, diagrams, animations and more.
- Web: <http://www.teachersdomain.org>
- Frame this free poster of **Abraham Lincoln**. Request the poster by sending an email to freeposter@loc.gov, with Poster in the subject line, or write to Abraham Lincoln Bicentennial commission, Library of Congress, 101 Independence Avenue, SE, Washington, DC 20540-4015.
- Teaching, like comedy, is all about timing. Exploit those teachable moments with timely, topical and free activities and lesson plans from **TeachableMoment. Org**. The topics include current national and international events, conflict resolution and intercultural understanding. Updated weekly, the Web site describes each activity and indicates the appropriate grade level. Recent activities include the Feelings Charade game (grades 4-12, How to Stop Cheaters essay (K-12) and several on the 2004 presidential elections.
- Web: <http://www.teachablemoment.org/>
- Ruminating about the Red Planet? Let a free **Earth/Mars Comparison** poster, from NASA's Mars Exploration Program, deliver the facts. Classroom activities are found on the back. NASA's Mars for Educators Web section also feature resources, activities, professional development and student programs with Mars and/or robotics as a central theme.
- Web: <http://marsprogram.jpl.nasa.gov/classroom>

- Relationship violence often begins in the teen years. **Liz Claiborne** offers middle and high-school counselors, nurses and teachers several downloadable guides, including *What You Need to Know About Dating Violence: A Teen's Handbook*.
- Web: <http://www.loveisnotabuse.com/>
- Eek! Computer pioneer Alan Kay is the guiding light behind **Squeak**, a **free media-authoring tool** that's purr-fect for youngsters. There are tutorials, a build-it-yourself Etoys Quickstart Guide, plus lots of background and research on this innovative open-source project.
- Web: <http://squeakland.org>
- **Kids Voting USA** offers two free curricula in 2004. **Civics Alive!** supplies citizen education for grades 4-12 via a set of activities that includes role-playing, craft making, debating and classroom elections. **Destination Democracy** provides 41 activities designed to engage high school students in meaningful service-learning experiences within their community.
- Web: <http://www.takeyourkidstovote.org/LINKS/kidsvoting.htm>
- Free posters for classrooms, contest for students, fellowships for teachers—there's always something new on **C-SPAN.org**. Covering **public affairs**, the site provides a wealth of instructional resources by topic. Free membership brings you email updates and resources that are customized to the grade level and subject you teach. Naturally, video and multimedia resources abound.
- Web: <http://www.c-spanclassroom.org/>
- It's everything history at **History Wired**. The Web site offers a virtual tour of a small number of the 3 million objects on display at the **National Museum of American History**. Click on the icons to learn more about the nearly 500 objects on display.
- Web: <http://www.historywired.com>
- **Today in Literature** posts daily an original biographical story about an author. Highly browsable, the site allows students to delve deeply into the writings, people and events of literary history.
- Web: <http://www.todayinliterature.com>
- The award-winning **Math Cats** site enables open-ended explorations of K-12 math concepts through both online and offline activities. Online activities include the Math Cats Balance, Polygon Playground, Tessellation town, plus math art activities. Offline activities include math crafts, story problems and monthly math writing contests. Idea banks for teachers offer suggestions for classroom activities and links to recommended resources.
- Web: <http://www.mathcats.com>
- **Digital Book Index** features more than 73,000 English-language texts. The free Web site provides essay access to tomes on everything from ancient agriculture to *Star Trek*. Hundreds of dictionaries, thesauri, glossaries and style guides are also available.
- Web: <http://www.digitalbookindex.com>
- **Math Tools** supplies hundreds K-12 math lesson plans, tools, learning activities and even stories. Every subtopic in mathematics is covered. Plus, the tools available include online applets, programs for calculators and handhelds and more. From **The Math Forum at Drexel University**, this comprehensive site is both searchable and browsable.
- Web: <http://mathforum.org/mathtools/>

- The **Black Inventor Online Science Museum** supplies an annotated timeline and briefs on those, often unrecognized, pioneers who made original contributions.
- Web: <http://www.blackinventor.com>
- Stitch together a science curriculum. **NASA's Space Science Curriculum Standards Quilt** uses a cool interface (an interactive patchwork quilt) to provide age-appropriate activities and lesson plans for teaching about the solar system in K-12 classrooms. Vertical columns represent subject areas that cross-reference with one of five scientific concepts arranged in horizontal rows; Science as Inquiry, Technology Connections, Personal Social Connections, Nature and History of Science and Unifying Concepts and Processes.
- Web: <http://quilt.jpl.nasa.gov>
- An overview of 20th-century developments in science and technology is amply illustrated by **A Science Odyssey**. The **PBS** site features an annotated timeline, plus a databank of scientist biographies, descriptions of key events and discoveries and other resources. Students will love the You Try It activities and that's My Theory game show.
- Web: <http://www.pbs.org/wgbh/aso/>
- **ScienceNetlinks** provides resources for K-12 science teachers and guides them to meaningful standards-based Internet experiences for students. There are weekly updates, lesson plans, science-literacy goals and more.
- Web: <http://www.sciencenetlinks.org>
- Mars maniacs, rejoice. This scientifically accurate computer animation of Mars rover missions goes from blast-off to bounce-in, as well as to the mobile robots' days and nights on the Red planet.
- Web: <http://www.maasdigital.com/gallery.html>
- Lessons such as Makin' the Bacon help teens better understand budget and economic principles at the Sense and Dollars Web site. Designed for grades 7-12, students learn "all about the Benjamins" using true-to-life simulation games. A comprehensive online guide for teachers includes instructional strategies, curricular suggestions and correlations to standards. There's also a guide for families.
- Web: <http://senseanddollars.thinkport.org>
- The **San Diego Zoo** Web site offers educational activities, games and even a Zoo Internet Quest. And who can resist the Panda Cam, Polar Cam or Ape Cam? Look under the Learn tab to access these features and more.
- Web: <http://www.sandiegozoo.com>
- Language and Grammar help
- Web: <http://grammar.ccc.commnet.edu/grammar/>
- The National Institutes of Health --- an online resource-- in **English AND Spanish**-- which provides information about health topics, health news, drug information, and **most importantly for guidance counselors**, a directory of local agencies which provide information and help for all sorts of personal problems which students may feel uncomfortable talking about. You could look up detailed information about

prescription drugs, newly diagnosed conditions or disorders, local physicians and treatment centers, and much more.

- Web. <http://medlineplus.gov>
- The KidsKnowIt Network is your student’s free portal into the many exciting facets that make up our Universe. From the human heart, to the moons of Jupiter you will find it all on the KidsKnowIt Network. Free Educational Websites. Our fun and educational games, activities, worksheets, free online classes, and much much more, make learning fun. At The KidsKnowIt Network we provide accurate, updated, and fun information for you and your student. Best of all, YOU NEVER PAY FOR ANYTHING!!
- Web. <http://kidsknowit.com>

Other Web References:

AASL Electronic Lists	www.ala.org/aasl/aaslist.html
AASL Information, programs, services	www.ala.org/aasl
American Library Association	www.ala.org
Best Jobs in the USA	www.bestjobsusa.com
Bibliographies of famous women	www.greatwomen.org
Bureau of Labor Statistics – Job Types	//stats.bls.gov/k12
Career Search	www.employmentguide.com
Career Survey	www.princetonreview.com Click:Career
Center For Disease Control	www.cdc.gov
Children’s Encyclopedia of Women	www2.lhric.org/pocantico/womenenc/womenenc.htm
College & Career Centers	www.usnews.com/usnews/edu/eduhome.htm Click:Education
DISCovering Science, DISCovering History, etc.	galenet.gale.com
Electric Library: mags, maps, TV, radio, books	www.highbeam.com/library/index.asp
ERIC, business, encycs, newspapers, health	www.inspire-indiana.net
General health	www.yahoo.com/health
Job Hunt	www.job-hunt.org
Magazines, newspapers, journals	sks.sirs.com
New York Times – Teacher Lessons	www.nytimes.com/learning/ Click: Teacher - Daily Lesson Plan
Notable Women Ancestors	www.rootsweb.com/~nwa/
Old Farmer’s Almanac	www.almanac.com
School Library Media Online	www.ala.org/aasl/
US News Online	www.usnews.com

Ethics and Character Education – web sites that promote character and ethical development in education the world over.

Character Counts!	www.charactercounts.org
Character Education Partnership (CEP)	www.character.org
Ethics Resources Center	www.ethics.org
Institute for Global Ethics	www.globalethics.org
The Boyer Center	www.boyercenter.org

Productivity Tools	OnLine Content
www.keeboo.com	http://webquest.sdsu.edu/materials.htm www.cyberbee.com http://trackstar.4teachers.org/trackstar/index.jsp www.exploratorium.edu http://www.ancientegypt.co.uk/menu.html http://www.spaceday.org/index.html

OnLine Training	Searching Tools
www.actden.com	www.webbrain.com (From PC) www.google.com www.dogpile.com http://alltheweb.com www.ditto.com www.profusion.com

Lesson Plan Tools	Research Tools
www.learner.org/teacherslab/ http://teams.lacoe.edu	www.refdesk.com www.itools.com/research-it/ www.noodletools.com www.askanexpert.com

Assessment Tools	Resource Tools
http://www.4teachers.org www.teach-nology.com/web_tools/rubrics/ www.funbrain.com/ http://landmark-project.com/classweb/tools/rubric_builder.php http://www.uwstout.edu/soe/profdev/rubrics.shtml	www.powa.org http://teachers.teach-nology.com/web_tools/assignment