

An Annotated List of Web Sites for Mathematics Educators

The World Wide Web is an awesome resource for educators. Mathematics teachers can find math puzzles and games, lesson

ideas, mathematical concepts and applications, and historical information. The list below is only a sample of the variety of information available online.

1. **The Math Forum:** <http://www.forum.swarthmore.edu/>

Who: Students, teachers, parents

Level: K-12 and above

Format: Printable material, discussion boards, downloadable Web projects

Something for everyone. Students can submit math-related questions to Dr. Math. Teachers can have their classes work on the problem of the week or access other innovative classroom ideas by searching for Web-based classroom materials, participating in the discussion forum, or reading the postings that announce workshops for mathematics educators. Parents and others can participate in various ways, including subscribing to the Math Forum newsletter.

2. **The Guide to Math and Science Reform** by the Annenberg Foundation and the Corporation for Public Broadcasting: <http://www.learner.org/theguide/>

Who: Teachers, parents, administrators

Level: K-12

Format: Printable material

This site is helpful for families, teachers, teacher educators, and administrators interested in reforming mathematics and science education. It offers a searchable database of national, regional, and local projects, resources, and organizations whose central focus is the teaching of mathematics and science at the K-12 level. Many of the projects focus on professional-development activities for teachers. It also includes resources, and lists of organizations working on changes in curriculum, teacher education, and assessment issues.

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3. **This Is MEGA Mathematics!**

<http://www.c3.lanl.gov/mega-math/>

Who: Students, teachers, parents

Level: K-5

Format: Printable material

The MegaMath project presents unusual and important mathematical ideas for elementary students and teachers to explore, using engaging stories and anecdotes filled with mathematics history. All of the activities include hands-on exploration, as well

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as problem-solving and communication of mathematical ideas.

4. **A+Math:** <http://www.aplusmath.com/>

Who: Students, teachers, parents

Level: K-8

Format: Printable material, online activities

At this site, students can test their computational skills through a series of games and flashcards. The mathematical versions of Bingo and Concentration, as well as a hidden picture game, allow students to practice arithmetic and have fun at the same time. The site also has flashcards that teach basic and higher-level skills like reducing fractions, order of operations, and working with inequalities. The flashcard creator allows teachers to quickly make and print flashcards for classroom use.

5. **Math Goodies:** <http://www.mathgoodies.com/>

well as message boards for teachers and parents to communicate about mathematics-related topics. Designed for students in grades 5 through 8, the site's lessons provide immediate feedback through exercises. The message boards allow those interested in mathematics education to interact while maintaining a high level of privacy.

6. **Exactly How Is Mathematics Used in Technology?:** <http://www.math.bcit.ca/examples/table.htm/>

Who: Students, teachers, parents

Level: 8-16

Format: Printable material

Students often ask: "When will I ever use this?" This site, designed by members of the mathematics department at the British Columbia Institute of Technology and ranked as one of the top 10 educational sites on the Web by the Learning in Motion organization, can help students answer this question. Topics from algebra through

and forestry.

7. **MATHCOUNTS:** <http://www.mathcounts.org/>

Who: Students, teachers, parents, administrators

Level: 5-8

Format: Printable material, discussion boards, online store

MATHCOUNTS makes mathematical achievement as challenging and exciting as school sports. Teachers and other interested volunteers coach middle-school students in preparation for local, state, and national competitions. Students build on their interest and understanding of mathematics, develop teamwork skills, and explore math-related careers as they compete for prizes and scholarships. The site tells how to become involved in the program and how to obtain resources for teachers and volunteers. All materials are based on the NCTM Standards.

8. **Student Math Notes** by NCTM: <http://www.nctm.org/publications/smn/>

Who: Teachers, parents

Level: 5-10

Format: Printable material

Formerly a supplement to the *NCTM News Bulletin*, *Student Math Notes* is now available online. Each link is an easy-to-access PDF file that is ready to print and use in the classroom.

9. **Texas Instruments—Educational Resources:** <http://www.ti.com/calc/docs/resource.htm/>

Who: Teachers, parents

Level: K-12 and above

Format: Printable material, discussion boards, online store

A valuable resource for anyone using TI calculators in their classroom. Lesson ideas are listed by grade level and include what type of calculator to use for the activities. The lessons contain specific directions for calculator use, including pictures of calculator keys. Information about books, videos, and other supplemental materials featuring TI calculators is available at this site, as well as discussion groups and E-mail lists that discuss calculators and other educational technology issues.

Aplusmath.com Word Find

Words to Find:

ADD
SUBTRACT
MULTIPLY
DIVIDE
SUM
EQUAL
REMAINDER
EVEN
ODD
MATH

T	E	Z	K	M	T	X	A	Q	R	Q	N	E	V	E
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C	R	A	S	Y	Q	P	L	U	S	K	S	L	S	Q
B	P	I	R	Y	X	I	Z	T	V	E	M	H	Y	E
P	G	Q	I	T	F	C	P	Z	E	D	H	N	N	M
N	U	G	U	M	B	P	U	P	K	I	X	Y	A	I
J	G	J	I	B	E	U	G	A	N	V	Y	T	N	R

Who: Students, teachers, parents

Level: K-12

Format: Printable material, discussion boards, online activities

This site features interactive math lessons, worksheets, and puzzles, as

differential equations are covered, making this site beneficial for high school and college students. The site features examples of the importance of mathematics to technology-intensive fields like engineering, electronics,

10. **Math: Lesson Ideas** by teachnet.com: <http://www.teachnet.com/lesson/index.html/>

Who: Teachers, parents

Level: K-12

Format: Printable material

Teachnet.com is full of lesson ideas and other teaching tips. There are five categories of math lessons: geometry, maps and graphs, real-world, terminology, and general. The real-world math page contains 10 lesson ideas featuring the use of mathematics in a variety of situations. Many of the ideas incorporate technology and cooperative learning techniques. The lessons are geared for students at all levels of the mathematics hierarchy.

11. **COMAP: The Consortium for Mathematics and its Applications:**

<http://www.comap.com/>

Who: Teachers, parents

Level: 8-16

Format: Downloadable material, discussion boards, and book and video information

COMAP, a nonprofit organization, develops curriculum materials that are both academically challenging and interesting to students and teachers. Published in textbook, video, and other multi-media formats, the materials use mathematical tools to explore real-world problems. All of the products highlight various aspects of the NCTM Standards. COMAP is also involved in the professional development and the preparation of teachers. Information about their projects, curriculum materials, and research findings can be found at this Web site.

12. **Mathematics Web Sites**

Around the World: <http://www.math.psu.edu/MathLists/>

Who: Students, teachers, parents, administrators

Level: K-16

Format: Web page links

This Web site, established by the Penn State University Department of Mathematics, is an excellent resource for anyone interested in gathering information about a specific college or university mathematics department or researching a particular math topic. It includes links to a large number of national and international institutions,

organizations, and electronic journals. Many of the links refer to higher-level mathematics, but with a little searching, one can find some interesting information about topics relevant to K-12 students as well.

13. **The Grey Labyrinth:** <http://www.grey labyrinth.com/>

Who: Students, teachers, parents

Level: 8-16 and above

Format: Printable material, discussion boards

The Grey Labyrinth contains a collection of interesting puzzles, all presented as easy-to-read paragraphs


printable material

Mathematical challenges at this site will provide hours of family fun. Teachers, too, will be interested in involving students in Figure This! projects. The varied problems are thought-provoking and require teamwork. Challenge topics include geometry, probability, and number theory. The Family Corner contains a wealth of information for parents who want to participate in their child's mathematical education, such as ideas for interacting with teachers and helping with homework. ☞

MRS. GLOSSER'S Math Goodies

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MATH HOMEROOM

Math Goodies is a free educational web site featuring interactive math lessons, homework help, worksheets, puzzles, message boards, and more! We have over 400 pages of free math activities and resources for students, teachers, and parents.

We invite you to join our growing community by subscribing to our free newsletter! We'll keep you informed of math news and site updates, while respecting your privacy.

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FEATURE OF THE WEEK	MESSAGE BOARDS
Math Help for Students!	Classroom Gems
LESSONS	Educational Activities
Introduction to Statistics <small>NEW!</small>	Homeschooling Support
Topics in Pre-Algebra	Homework Help
Probability	Interdisciplinary Studies
Integers	Math News and Events
Understanding Percent	New Teachers
Number Theory	Parents Place

or short stories that provide the necessary foundation. The solutions, which use various mathematical concepts, are readily accessible and easy to understand. The site designers have included a discussion board for puzzle fans to converse about puzzles, puzzle answers, and other related topics. The site also includes links to other puzzle-related Web sites.

14. **Figure This! Math Challenges for Families:** <http://www.figurethis.org/index40.htm/>

Who: Students, teachers, parents

Level: 5-8

Format: Downloadable material,

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