

The Math Path

This pathfinder is designed to help students, parents and teachers find solutions to their math problems on the Internet. It is a navigation instrument divided into four sections: the STUDENT section targets elementary and middle school users, the PARENTING section is designed to assist those who aid young people with homework and the RESOURCE section provides lesson plans and activities for teachers and homeschool families. The final section contains ONLINE help for homework (to check solutions for accuracy, etc). All entries are annotated to facilitate access and reduce unnecessary searching. Math Path Websites were selected on the basis of usability, authority, format, design and appropriate language.

STUDENT

www.ala.org/iconn/kidsconn.html

American Assn. Of School Librarians and American Library Association Kids Connect Website. Favorite sites are linked by subject.

www.askdrmath.com

This site has received many Internet Awards as its Swarthmore college math students answer questions for others. Questions submitted often receive next day answers. There are searchable archives, FAQ's, elementary and secondary math are completely covered and there's even a "Problem of the Week" to test your brain- power. Current events are included in math challenge problem solving.

<http://www.harcourtschool.com/glossary/math/>

This is the Harcourt Multimedia Math Glossary. The site is offered in English and Spanish, you click your school grade to begin instruction. In the 2nd grade glossary E-lab, moving clock hands are used to illustrate a clock count of 30 minutes. 3rd grade topics include measuring, fractions, area, multiplication of fractions, time, money and numberlines.

<http://www.bjpinchbeck.com/framereference.htm>

BJ Pinchbeck is a hit with young people. BJ is 14 years old and he and his dad have located 700 educational sites of interest to young people. Links page is nicely divided by topic, elementary/ general/ algebra, etc.

<http://forum.swarthmore.edu/elempow/>

Fun new ways to look at mathematical puzzles. This site was established to help elementary students solve non-routine math problems, and to express their answers verbally. There is an elementary school "Problem of the Week" and a list of past puzzles is accessible. There is a student recognition program you may participate in.

<http://www.edu4kids.com/math>

Flashcards for kids. This website scores the number of correct responses to attempts requested. You can manipulate up to 10 numbers at a time: add, subtract, multiply, or divide.

<http://forum.swarthmore.edu/library/>

The Internet Mathematics library put together by Swarthmore College offers up a smorgasbord of mathematics topics for elementary and secondary students.

<http://www.kidsvista.com/sciences/math.html>

KidswebMath, Math Dictionary, Frequently Asked Questions, Projects and Games are included in this website. Mathematical Quotations may be found, as well.

<http://www.math.com>

Helps students find solutions to their math problems. Offers articles and advice on math anxiety and effective study habits. Basic math, pre-algebra and algebra, square-roots, inequalities and exponents are a few of the topics covered. Math products, math tables, formulas, online converters and calculators, fractal art and spirographs can be found at this website.

<http://www.mathleague.com/help/help.htm>

A help resource for 4th - 8th graders. Whole numbers, decimals, fractions, geometry, pre-algebra and the metric system. Ratios, proportions, percents and probabilities, are also found here.

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

This site has over 4,500 word problems for elementary school age children to solve. The site is completely free, but a small donation is requested if the help proves useful.

<http://www.mathsyear2000.org/mathbut.html>

This website has a lot of interesting offerings. Numberland, for instance, allows you to see an entire page about any number that you choose from the offered matrix. News, resources and games abound at this site, and there is a section on Top Jobs that tells how Math is important daily to people in their chosen careers.

<http://www.meganova.com/megakids/flash.htm>

This website is fun and fast-moving. Flash literally “flashes” math questions on the screen and you are rewarded according to the accuracy and speed of your answers. This website is challenging as well as entertaining and is fun for both kids and adults.

<http://school.discovery.com/homeworkhelp/webmath/>

This is DiscoverySchool’s Webmath. Everything is covered from adding and multiplying fractions to brain boosters and solving the Riddle of the Sphinx. Aimed at middle school audience and up.

PARENT

<http://www.ala.org/parentspage/greatsites/science.html#d>

This American Library Assn. Picks page has lots of weblinks to assist parents with homework help.

<http://www.convert-me.com/en/>

A conversion table for weight, area, speed time, length and pressure, among other offerings.

<http://www.parentsoup.com>

This web-based community, ivillage, can help you teach your child about math while gardening, along with other interesting features. Type “math” in the subjects search area.

RESOURCE

<http://www.awesomelibrary.org/math.html>

Browse in any of 6 different languages. This website contains elementary and middle School math selections by grade, as well as interesting lesson plans and multidisciplinary methods for teaching mathematics. Top 5% of education websites are linked to this site.

<http://www.ee.ryerson.ca:8080/~elf/abacus/>

This site offers instructions on the use of the abacus, a device which evolved from a simple need to count numbers. The person operating the abacus performs calculations in their head and uses the abacus to keep track of the sums, the carries, etc.

<http://forum.swarthmore.edu/alejandre/magic.square/adler/>

This is a fun and exciting approach to the concept of “subsets” in math. Classroom activities are proposed for teachers. Overhead transparencies and student hand-outs available for copying.

http://forum.swarthmore.edu/library/resource_types/

An excellent area for teachers of mathematics and mathematics across the curriculum to visit. Types of resources, lesson plans, puzzles and link listings are just some of the offerings from Swarthmore College.

<http://www-groups.dcs.st-and.ac.uk/~history/BiogIndex.html>

This website offers an alphabetical and chronological index to biographies of mathematicians.

<http://www.cs.uidaho.edu/~casey931/mega-math/menu.html>

The frontier of mathematics is an exciting place, where mathematicians experiment and play with creative and imaginative ideas and new discoveries are being made every day. The MegaMath project is intended to bring unusual and important mathematical ideas to elementary school classrooms so that young people and their teachers can think about them together.

<http://www.pbs.org/teachersource/math.htm>

The Public Broadcasting System has put together lesson plans for Pre-K, Elementary and Secondary Students. Once you have selected your age group, you then pick a topic. The teacher activity I found was to have 2nd graders compute the cost of holding Arthur (the Aardvark's) Birthday party in the classroom.

<http://www.agnesscott.edu/lriddle/women/women.htm>

This website illustrates the numerous achievements and contributions of women in the field of mathematics. Includes biographies of each scholar and her place in the advancement of the numerical sciences.

<http://teachervision.com/lesson-plans/lesson-3650.html>

The teachervision website contains ready-to-use math printables and lesson plans. The printables are provided by Scott Foresman and you can choose from Pre-K to Secondary math for students. Interesting math topics include: Star Magnitude Graphing, Sunflowers, Stonehenge and U.S. Immigration projects.

ONLINE

<http://www.aplusmath.com>

This fun, friendly, interactive website has a flash card creator. Visitors can select the number sets that they'd like to have made into flash cards. Shapes, money, algebra and order of operations are covered. Printable worksheets are available, or you can fill in the blanks and check your answers online. There is a game room and a homework helper, so that you can input your homework questions and have them checked for accuracy.

<http://www.studyweb.com/Reference/toc.htm>

Online homework help. Calculators and converters, dictionaries and glossaries.

<http://www.askdrmath.com>

This website has FAQ's so you might want to check there first to see if your question has already been answered, but if not you can submit your questions to Dr. Math. Many receive replies the next day.