

Links

Contributed by
Last Updated Monday, 30 November 2009

The following sites include puzzle pages, resource sites for teachers, mathematical organisations, tricks and cartoons, fact pages, mathematical encyclopaedias - in fact anything that a mathematician, young or old, will find interesting!

Click on a blue heading to link up with that site. They are listed alphabetically.

- Abacus- The Art of Teaching With Beads -- Lots of information on the abacus.
- Association of Teacher of Mathematics -- The official home page of the Association of Teachers of Mathematics.
- BEATCALC: Beat the Calculator -- A collection of over 150 tricks for quick calculating.
- Black Douglas -- Professional support in mathematics education for elementary and high school teachers and teacher trainers.
- Brain Teasers -- Whether you solve them at home or in the classroom, individually or as a group, you'll find our Brain Teasers both entertaining and mentally challenging. Each Wednesday evening there is one new Brain Teaser at each of three grade ranges. Solutions are posted on the following Wednesday.
- Centre for Innovation in Mathematics Teaching --The Centre, established in 1986, is a focus for research and curriculum development in Mathematics teaching and learning with the Professional support in mathematics education for elementary and high school teachers and teacher trainers.
- David Bailey's World of Escher-Like Tesselations -- David Bailey from Grimsby, England, who has a keen interest in recreational mathematics, of a mostly geometrical nature, and more specifically of Escher-like tessellations along with their application to polyhedra.
- e-MATH Home Page -- The web site of the American Mathematical Society. There is news about mathematics, AMS publications, careers for mathematicians etc.
- Edinburgh Mathematical Society -- This is the education page of the Edinburgh Mathematical Society. It includes details of the EMS's Schools Enrichment Fund.
- Erich's packing center -- A huge collection of problems packing one type of geometrical figure inside another.
- Exploratorium -- The Exploratorium is a USA based collection of educational resources (instructional software, lab activities, lesson plans, student created materials ...) for school mathematics and science education. You can browse through mathematics and science education curricula or conduct searches that focus on specific interests. Many resources are available in the Adobe Acrobat format that is readable by Macintosh, Windows and other OSs.
- Fibonacci Numbers and Nature -- This page has two parts. The first looks at the Fibonacci numbers and why they appear in various "family trees" and patterns of spirals of leaves and seeds. The second examines why the golden section is used by nature in some detail, including animations of growing plants.
- Fractals in Science -- The Center for Polymer Studies has developed a number of hands-on activities, laboratory experiments, and interactive visualisation programs. These activities encourage students to explore how fundamentally random microscopic events can give rise to fractal macroscopic patterns.
- Funbrain -- This site has quizzes and activities for children at four levels of difficulty. There are sections on numbers, words and the world. There is also Quiz Lab, a resource which allows teachers to create quizzes for their pupils.
- GCSE Answers -- GCSE Answers is where you'll find answers to many problems with GCSE Mathematics.
- GeoGebra -- GeoGebra is dynamic mathematics software for all levels of education that joins arithmetic, geometry, algebra and calculus. It offers multiple representations of objects in its graphics, algebra, and spreadsheet views that are all dynamically linked.
- Geometry Center -- The Geometry Center is a mathematics education centre at the University of Minnesota. There are interactive web pages allowing you to manipulate geometrical diagrams, hypertext papers, graphic images, formulas, downloadable software, course materials etc.
- Geometry Junkyard -- These pages contain usenet clippings, web pointers, lecture notes, research excerpts, papers, abstracts, programs, problems, and other stuff related to discrete and computational geometry. It is both serious and entertaining. There also a page on recreational mathematics.
- Geometry, step by step from the land of the Incas-- A beautiful geometry resource with colour, motion and music
- Glossary of Mathematical Mistakes -- This is a list of mathematical mistakes made over and over by advertisers, the media, reporters, politicians, activists, and in general many non-math people.
- Guide to mathematics resources -- A list of mathematical Web pages (mostly relating to mathematical software) and newsgroups where mathematics is discussed.
- History of Mathematics - University of St Andrews MacTutor Archive -- An extensive collection of information on the history of mathematics, with the biographies of around 1300 mathematicians, articles on the history of mathematical topics, birthplace maps, pictures of the mathematicians, interactive famous curves, and much much more.
- Interactive Mathematics Miscellany and Puzzles -- A great collection of mathematics problems and puzzles. Learning starts from wondering, and a purpose of this site is to serve as a resource for things, simple but curious, related to mathematics.
- Knot a Braid of Links -- This is a great source of links to other mathematical sites.
- Logotron Educational Software -- A catalogue of educational software with some demo versions to download.
- Madras College Mathematics Department -- One of the best sites produced by a UK school mathematics department. A great collection of interesting mathematical information.
- Magic Squares, Magic Stars & Other Patterns -- Pages on magic squares, magic stars (a lot of original material) and miscellaneous number patterns. This site should be of interest to middle and high school students and teachers, and anyone interested in recreational mathematics.
- Math Forum --The Math Forum is an NSF-funded project whose aim is to foster a community of teachers and pupils with an interest in mathematics. There are Discussion Groups, the Forum Showcase, an Internet Newsletter, Problems of the Week, Teacher2Teacher etc.

- Mathematical Association -- Official home page.
- Mathematical Association of America Online-- The site of the Mathematical Association of America. There is news about mathematics, and some articles.
- Mathematical Connections -- Mathematical Connections seeks to provide a forum for exploring the interplay between mathematics and the humanities. This includes, but is not limited to the relationship between mathematics and the arts, anthropology, history, literature, philosophy, music and religion. Classroom applications of these topics, such as the use of history in the teaching of mathematics, also fall within the scope of this periodical. Mathematics Archives -- The Mathematics Archives Materials are in five main categories: Topics in Mathematics, Software, Teaching Materials, Other Math Archives Features, Other Links. In addition you can Search the Math Archives, find What's New on the Math Archives, and get Math Archives Information. Mathematics Problem Solving Task Centres -- This Australian site has been designed to assist teachers and students in problem solving. There many tasks, problems, mathematical resources etc. Includes the problems of "Primary Maths Challenge".
- Mathematics and Knots -- An Exhibition presented by the School of Mathematics of the University of Wales, Bangor. A visit to this site opens a door to a new world and beautifully illustrates how mathematics may be used to explore and understand the seemingly commonplace knot. Mathematics with Alice -- Mathematics with Alice is for anyone who is interested about Mathematics, or who is interested in learning more about Mathematics, but who find the style of Mathematics textbooks too dry. MWA will take you on a course through Mathematics with the help of Alice, the girl in Lewis Carroll's stories. She will guide you through the field of algebra and through her guidance, you'll find yourself more interested in this field of mathematics. Mathematics WWW Virtual Library -- An extensive collection of mathematical links, including, mathematics education information, electronic journals, mathematics newsgroups and mathematical software. Maths Careers -- Advice compiled by the UK Council for Mathematical Sciences. Categorised by age, with features and posters.
- Maths Online -- Multimedia learning units on mathematical subjects for secondary school, high school, college, and university. Mathsroom -- Michael Aitchison's Online interactive resources for the Scottish mathematics curriculum.
- Mega- Mathematics! -- A collection of articles on mathematics from the Los Alamos National Laboratory.
- MswLogo, An Educational programming language -- A site of an educational software company where you can find out about MSWLogo, a graphical programming language, including colours and 3-dimensional geometry.
- National Association for Gifted Children --Information for teachers and parents of gifted children, with links to educational resources.
- National Council of Teachers of Mathematics -- The web site of the National Council of Teachers of Mathematics, an organisation dedicated to improving the teaching and learning of mathematics.
- Nick's Mathematical Puzzles -- Puzzles that range over geometry, probability, number theory, algebra, calculus, and logic. They are mostly at pre-university level, but require a certain ingenuity.
- Number and Word Puzzles -- A collection of 54 monthly puzzles to give education and entertainment for all ages.
- PLUS MAGAZINE -- A great collection of mathematical news, feature articles, a puzzle page and much more. Puzzling Playground -- If the puzzle which you solved, before you solved the puzzle which you solved after you solved the puzzle which you solved before you solved this puzzle, was more difficult than the puzzle which you solved after you solved the puzzle which you solved before you solved this puzzle, then was the puzzle which you solved before you solved this puzzle more difficult than this one? Shack's Math Problems -- Anyone with an appreciation of a good maths problem should find something they like here, with problems ranging from basic math to differential equations. Each problem also comes with a difficulty rating from one to four stars. Sheffield College Mathematical Links -- A set of links useful for mathematics teaching, grouped into different categories, with helpful brief descriptions of each site. Categories include (with number of links in brackets) A Level (26), Calculators (7), Data Sources (8), Foundation (2), GCSE (7), History (3), Information (3), Links (9), Organisations (6), Recreational (12), Software (16), Teaching Resources (7), Statistics (5). Texas Instruments Calculator Site -- Information on Texas Instruments calculators, including graphing and programmable calculators. Contains useful information such as Discovering Mathematics with the TI-73: Activities for Grades 5 and 6. Virtual Polyhedra -- Pictures of polyhedra, which you can rotate interactively and view from the inside, and background information about them. This site is a self- contained easy-to-explore tutorial, reference work, and object library for people interested in polyhedra.
- Wolframs MathWorld -- An encyclopaedia of mathematics, with many links both between entries and to other sites. A portion of the on-line Encyclopaedia of Mathematics is blocked from access each day since the whole is now available on CD-ROM.