

Resources

Web sites with useful information

Competitions

<http://archives.math.utk.edu/contests/> - list of competitions at varying levels
<http://bigcheese.math.sc.edu/contest/> - University of South Carolina HS Math Contest
<http://cemc.uwaterloo.ca/> - Canadian Mathematics Competitions
<http://courses.ncssm.edu/goebel/statecon/state.htm> - North Carolina State HS Mathematics Contest
<http://endeavor.macusa.net/mathpropress/index.htm> - math problems, high school
<http://www.maml.org/> - Massachusetts Association of Mathematics Leagues
<http://math.furman.edu/tournament/tournament.html> - Furman University Wylie Mathematics Tournament, Greenville, SC
<http://math.uww.edu/mathmeet/> - Purple Comet M/HS Math Meet
<http://mathcircle.berkeley.edu/> - problems, high school
<http://nciml.org/NCIMLCoachesGuide.pdf> - Nassau County Interscholastic Mathematics League Long Island, NY
<http://regentsprep.org/Regents/math/math-a.cfm#1> - competitions prep
<http://web.mit.edu/hmmt/> - Harvard-MIT Mathematics Tournament, MA
<http://www.amatyc.org/SML/> - American Mathematical Association of Two Year Colleges Student Mathematics League
<http://www.arml.com/> - American Regions Math League, past questions, high school
<http://www.cms.math.ca/CMS/Competitions/IMTS/> - questions, high school
<http://www.cms.math.ca/Competitions/CMO/> - Canadian Mathematical Olympiad
<http://www.cms.math.ca/Competitions/COMC/> - Canadian Open Mathematics Challenge
<http://www.comap.com/undergraduate/contests/mcm/> - Mathematical Contest in Modeling
<http://www.imo.org.yu> - mathematical olympiads, for those who prepare for math competitions or love problem mathematics.
<http://www.kalva.demon.co.uk/index.html> - problems, high school
<http://www.katev.org/impc/> - International Mathematics Project Competition
<http://www.lehigh.edu/%7edmd1/hs.html> - Lehigh University High School Math Contest, PA
<http://www.mandelbrot.org/> - Mandelbrot
<http://www.math.fau.edu/MathematicsCompetition/Home.htm> - Internet High School Math Competition, Florida Atlantic University
<http://www.math.okstate.edu/%7ehsc/> - Oklahoma State University HS Math Contest
<http://www.math.umd.edu/highschool/mathcomp/> - University of Maryland HS Mathematics Competition
<http://www.math.wisc.edu/%7etalent/> - University of Wisconsin Mathematics, Engineering and Science Talent Search
<http://www.mathcounts.org/> - MathCounts group competition for Middle Schools
<http://mathforum.org/library/view/41814.html> - Maritime Mathematics Competition, University of Prince Edward Island
<http://www.mathleague.com/> - Math League (New England)
<http://www.mathleague.com/reglist/REGIL.HTM> - Illinois Math League
<http://www.mathpropress.com/competitions.html> - links to multiple contests' problems
<http://www.ruf.rice.edu/~eulers/RMT.html> - Rice University Math Tournament, Houston, TX
http://www.testprepreview.com/thea_practice.htm - THEA practice tests (Texas Higher Education Assessment)
<http://www.uccs.edu/~olympiad/> - Colorado Math Olympiad
<http://www.unl.edu/amc/a-activities/a7-problems/problemdir.shtml> - problems, high school
<http://www.unl.edu/amc/a-activities/a7-problems/putnamindex.shtml> - questions, college
<http://www.usamts.org/> - USA Mathematical Talent Search

General

<http://education.jlab.org/indexpages/elementgames.html> - games
<http://mathcounts.org/> - middle school competition website
<http://mathforum.org/> - for students and teachers, math resource
<http://mathworld.wolfram.com/> - Wolfram MathWorld - math resource for anyone
<http://milan.milanovic.org/math/english/contents.html> - Rasko Jovanovic's World of Mathematics
<http://www.cms.math.ca/Competitions/MOCP/> - Mathematical Olympiads Correspondence Program
<http://www.curiousmath.com/> - Curious Math
<http://www.maa.org/> - The Mathematical Association of America
<http://www.mathaware.org/> - Mathematics Awareness
<http://www.mathfrog.ca> - free site of Fun Resources and Online Games for teachers, parents & students, grades 4-6
<http://www.mathsisfun.com> - mainly K-12 site, it sometimes helps to have basic concepts explained, + plenty of math puzzles.
<http://www.mathispower.com/> - Math is Power
<http://www.mathlinks.ro/Forum/portal.php> - MathLinks EveryOne
<http://www.mathpath.org/> - Math Path
<http://www.nctm.org/> - lessons, resources, etc for teachers
<http://www.visualmathlearning.com/> - interactive tutorial -pre-algebra students, games, puzzles, + animated manipulatives

Reference

<http://eqworld.ipmnet.ru> - World of Mathematical Equations, post high school
<http://historical.library.cornell.edu/math/> - online math books

<http://math.usask.ca/emr/menu.html> - math readiness, high school
<http://mathforum.org/dr.math/> - ask math questions, 7-12
<http://www.artofproblemsolving.com/> - student resource, high school
<http://www.circusofpatterns.com> - research in mathematics number patterns, a series of mathematical charts math
<http://www.curiousmath.com/> - tips, tricks, facts, etc; middle school
<http://www.cut-the-knot.org/> - extra math reference, 7-12
<http://www.sosmath.com/> - classroom math reference, 7-12
<http://www.webmath.com/> - classroom math questions, 7-10

Math History

<http://aleph0.clarku.edu/~djoyce/mathhist/mathhist.html> - math history, regional, chronological
<http://library.thinkquest.org/22584/> - math history, biographies
<http://members.aol.com/jeff570/mathword.html> - history of mathematical terms
<http://www-gap.dcs.st-and.ac.uk/~history/BiogIndex.html> - math biographies

Teaching

<http://euler.slu.edu/Dept/SuccessinMath.html> - How to study (mainly college)
<http://gametheory.net/> - Game Theory - resource for educators
<http://jwilson.coe.uga.edu/emt725/PSsyn/PSsyn.html> - Teaching problem solving
<http://mathforum.org/> - Math Forum @ Drexel University
<http://www.claymath.org/index.php> - Clay Mathematics Institute
<http://www.lessonplanz.com/> - Lesson plans for teachers
<http://www.mathaware.org/> - List of professional websites
<http://www.mathgoodies.com/> - Worksheets, lessons, articles; middle school
<http://www.mathsolutions.com/> - Math Solutions Professional Development
<http://www.mathswap.ca> - web site for teachers to share materials with each other, 9-12
http://www.pbs.org/teachersource/recommended/math/lk_problemsolving.shtm - List of teaching resources for k-12
<http://www.totallyfreemath.com/> - GetMath - Terry Wesner's page – algebra reference materials
<http://www.wiredmath.ca> - free student/teacher mathematics resources, on-line games + drills, for 7-9; English + French.

Mentoring

<http://jhuniverse.jhu.edu/%7eegifted/set/> - Study of Exceptional Talent, middle school - Johns Hopkins University
<http://www.awesomemath.org/> - Awesome Math
<http://www.tip.duke.edu/> - Talent Identification Program, middle school - Duke University

Books

<http://store.doverpublications.com/> - Dover Books
<http://www.amazon.com/exec/obidos/tg/browse/-/13884/> - Amazon.com Mathematics Books
<http://www.ams.org/bookstore/> - American Mathematical Society Bookstore
<http://www.artofproblemsolving.com/> - Art of Problem Solving
<http://www.cms.math.ca/Publications/> - Canadian Mathematical Society
<http://www.geocities.com/asoifer/orderform> - Center for Excellence in Mathematical Education
<http://www.mathpropress.com/> - MathPro Press
<http://www.nctm.org/publications/> - NCTM Book Store
<http://www.springeronline.com/> - Springer Publishing
<http://www.tarquin-books.demon.co.uk/> - Tarquin Books
<http://www.whfreeman.com/generalreaders/sal.asp> - W. H. Freeman Publishers
https://enterprise.maa.org/ecompro/timssnet/common/tnt_frontpage.cfm - Mathematical Association of America Bookstore

Journals & Magazines

<http://www.informs.org/index.php?c=31&kat=-+INFORMS+Journals> - Interfaces
<http://journals.cms.math.ca/CRUX/welcome.html> - CRUX Mathematicorum with Mathematical Mayhem
<http://komal.elte.hu/info/bemutakozas.e.shtml> - KöMaL
<http://olympiads.win.tue.nl/ioi/misc/miq.html> - Mathematics and Informatics Quarterly
<http://plus.maths.org.uk/issue18/index.html> - Plus Magazine ..living Mathematics
<http://www.artofproblemsolving.com/> - Art of Problem Solving
<http://www.joma.org/jsp/index.jsp> - Journal of Online Mathematics and its Applications
<http://www.maa.org/mathhorizons/> - mMath Horizons
<http://www.whitehouse.gov/kids/math/> - White House Math

Circles

<http://comet.lehman.cuny.edu/mathcircle/> - Lehman College Math Circle, City University of New York
<http://mathcircle.berkeley.edu/> - Berkley Math Circle, Berkley, CA area
http://www.artofproblemsolving.com/SDMC/AoPS_S_About.php - Math Circle in San Diego
<http://mathcircles.fiu.edu/> - Florida International University, University Park, Miami, FL
<http://www.math.uci.edu/%7emathcirc/> - Math Circle at University of California, Irvine

<http://www.ma.utexas.edu/users/smmg/> - University of Texas at Austin Saturday Morning Math Group
<http://www.math.utah.edu/mathcircle/> - University of Utah Math Circle, Salt Lake City, UT
<http://www.mathlessons.com/> - offers free Math Lessons Classifieds, Goal - make it easier to find what's available and fits them best.
<http://www.mualphatheta.org/> - Mu Alpha Theta, a national organization which has local chapters, similar to a Math Circle
<http://www.southalabama.edu/mathstat/non-css-mathcircle.shtml> - University of South Alabama, Mobile, AL
<http://www.themathcircle.org/> - The Math Circle, Boston, MA area

Fairs/Scholarships

<http://www.ams.org/prizes/epsilon-award.html> - AMS Epsilon Awards for Young Scholars Programs
http://www.ditdservices.org/Articles.aspx?ArticleID=36&NavID=1_0 - Davidson Institute Programs & Scholarships
<http://www.questbridge.org/> - Quest Bridge
<http://www.sciserv.org/iseef/> - Intel International Science and Engineering Fair
<http://www.sciserv.org/sts/> - Intel Science Talent Search
<http://www.siemens-foundation.org/> - Siemens Competition in Math, Science & Technology

Summer Camps

<http://dimacs.rutgers.edu/ysp/> - Young Scholars Program in Discrete Mathematics, Rutgers University, NJ
<http://math.bu.edu/people/promys/> - PROMYS-Program in Mathematics for Young Scientists
<http://math.stanford.edu/sumac/> - Stanford University Mathematics Camp
<http://mrsec.uchicago.edu/outreach/ysp.html> - 4 week Summer camp at University of Chicago
<http://www.awesomemath.org/> - Awesome Math
<http://www.cee.org/rsi/index.shtml> - Research Science Institute, MIT
<http://www.hcssim.org/> - Hampshire College Summer Studies in Mathematics, Amherst, MA
<http://www.math.lsa.umich.edu/mmss/> - University of Michigan Math and Science Scholars
<http://www.math.ohio-state.edu/ross/> - Ross Program
<http://www.mathcamp.org/> - Canada/USA Mathcamp

Miscellaneous

These sites provide additional mathematics information, including problems. There are problems listed on many of the competition sites, listed in the events section, but problem lists without an attached event are listed here.

<http://aleph0.clarku.edu/~djoyce/java/elements/elements.html> - Euclid's Elements
<http://gams.nist.gov/> - Guide to Available Mathematical Software
<http://math.cofc.edu/faculty/kasman/MATHFICTION/> - Mathematical Fiction
<http://math.furman.edu/~mwoodard/> - Mark Woodard's Mathematical Quotation Server (Mark.Woodard@furman.edu)
<http://olympiads.win.tue.nl/imo/soviet/RusMath.html> - Soviet Union Olympiad problems
<http://primes.utm.edu/> - The Prime Pages
<http://puzzleshq.com/> - Puzzles HQ
<http://random.mat.sbg.ac.at/> - Random Number Generation
<http://wims.unice.fr/> - Interactive mathematics on the internet
<http://www.aimsedu.org/> - AIMS Foundation (Activities Integrating Mathematics & Science)
<http://www.ams.org/> - American Mathematical Society
<http://www.ams.org/mathweb/> - Math on the Web, by the American Mathematical Society
<http://www.c3.lanl.gov/mega-math/> - Mega Mathematics
<http://www.c3.lanl.gov/mega-math/workbk/knot/knot.html> - Untangling the Mathematics of Knots
<http://www.cms.math.ca/Competitions/IMTS/> - International Mathematical Talent Search - discontinued in 2001, but all problems listed
<http://knotplot.com/> - The Knot Plot Site
<http://www.emis.de/> - European Mathematical Information Service
<http://www.e-tutor.com/> - Online mathematics Dictionary
<http://www.geocities.com/CapeCanaveral/Lab/4661/> - Olympiad Math Madness
<http://www.imo.org.yu/> - The IMO Collection
<http://www.lib.uwaterloo.ca/discipline/math/> - Mathematics Research Guide, University of Waterloo, Waterloo, Ontario, Canada
<http://www.math.fsu.edu/Virtual/index.php> - WWW virtual Mathematical Library, located at Florida State University
<http://www.math.kth.se/~shapiro/problem.html> - Mathematical Problem Solving
<http://www.math.psu.edu/MathLists/Contents.html> - Mathematics Information Servers at Penn State U.
<http://www.math-atlas.org/welcome.html> - Mathematical Atlas
<http://www.mathlinks.ro/Forum/> - MathLinks Math
<http://www.mcs.surrey.ac.uk/Personal/R.Knott/Fibonacci/fib.html> - Fibonacci Numbers and the Golden Section
<http://www.oakland.edu/enp/> - The Erdős Number Project
<http://www.qbyte.org/puzzles/> - Nicks Mathematical Puzzles
<http://www.research.att.com/~njas/sequences/> - Sloane's On-Line Encyclopedia of Integer Sequences
<http://www.siam.org/> - SIAM [Society for Industrial and Applied Mathematics
http://www.testprepreview.com/thea_practice.htm - THEA Online Courses, Practice Tests
<http://www.w3.org/Math/> - W3C Math Home, What is MathML?
<http://www.groups.dcs.st-and.ac.uk/~history/> - The MacTutor History of Mathematics archive
http://www.testprepreview.com/thea_practice.htm - THEA Online Courses, Practice Tests