

# 10 Best Web Sites to Enrich Your Elementary Math Curriculum (Is it okay if I give you even more?)

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## Drill & Practice

- ❖ **AAA Math** - These pages illustrate and provide interactive arithmetic exercises and problems. Arranged by Grade (*K – 8th*) or by subject. - <http://www.aaamath.com/index.html>
- ❖ **Auto Maths!!!– Elementary and Intermediate** - Automaths doesn't teach you how to get to an answer, but it does provide valuable practice for automatic response skills, which children still get quizzed on in classrooms today. Can be customized for “Junior”, “Middle” and “High”, but this isn't grade levels. “High” used 2 digit division without remainders. Other activities available on this site. - <http://www.edbydesign.com/automath.html>
- ❖ **Education 4 Kids** - Drill games that are just that – not tests, but drilling and reiteration. These are tools for learning, not testing tools. Drill is available for Math (*K-12*), the Table of Elements in Science (*10-12*), Language (*PK-K & 6-10*), Presidents (*10-12*) and US Geography (*5-9*) - <http://www.edu4kids.com/>
- ❖ **Math Drill** - Math problems are organized into 70 levels (and *increasing*), ranging from simple **ordering** of numbers to addition and subtraction (with/without *carry / borrow*, *word* problems, using whole numbers as well as those with fractions or decimals), multiplication, division (simple as well as long), fractions, time , algebra , geometry. **Grades 1 - 12** - <http://www.mathdrill.com/>
- ❖ **MultiFlyer** - <http://www.qdbdp.com/multiflyer/> - a game for anyone who is trying to learn or 'brush up on' their multiplication
- ❖ **Number Monster** –You can Add, Subtract, Multiply and/or Divide with skill levels from “easy” to “monster”. <http://www.coolmath4kids.com/numbermonster/index.html>

## Money Related

- ❖ **Children's Finance Game** – Click on your money until you have given Abe enough to buy what he has to sell. - <http://www.state.tn.us/financialinst/java/game/game.html>
- ❖ **Fleet Kids** - In the FleetKids program, each child investigates an array of mathematics, financial, and social concepts. Kids can compete with other schools for prizes. - <http://www.fleetkids.com/>
- ❖ **Moneyopolis** -This is an educational Web site for children in **grades six through eight**. The site was created to ensure that American school children have an opportunity to learn basic financial planning concepts. Accompanying the Web site are materials for math teachers to support them in assisting children as they use the site. <http://www.moneyopolis.com/>
- ❖ **You Buy a Car** based on **Problem Based Learning** - PBL is both a curriculum and a process. The curriculum consists of carefully selected and designed problems that demand from the learner acquisition of critical knowledge, problem solving proficiency, self-directed learning strategies, and team participation skills. The process replicates the commonly used systemic approach to resolving problems or meeting challenges that are encountered in life and career. In problem-based learning, the traditional teacher and student roles change. The students assume increasing responsibility for their learning, giving them more motivation and more feelings of accomplishment, setting the pattern for them to become successful lifelong learners. The faculty in turn becomes resources, tutors, and evaluators, guiding the students in their problem solving efforts. - <http://www.mcli.dist.maricopa.edu/pbl/ubuytutor/index.html>

## Problems of the Week

- ❖ **Auntie Math –K through 5** – Feedback given the very next day to all respondents.

- Problems given in story form using the same characters each week. - <http://www.dupagechildrensmuseum.org/aunty/index.html>
- ❖ **Education Place by Houghton Mifflin** - Challenge students with the weekly word problem. Each page can be printed and copied for classroom use. Divided by **Grades 3-4**, **Grades 5-6** and **Grades 7-8** – <http://www.eduplace.com/math/brain/index.html>
  - ❖ **Problem of the Week Homepage** - <http://www.wits.ac.za/ssproule/pow.htm> - created by Stephen Sproule of the University of the Witwatersrand in Johannesburg, South Africa. This offers a list of multiple sites offering POWs ranked by Dr. Sproule and students in his classes. You will also want to check out his Mathematics Education Internet Sites at <http://www.wits.ac.za/ssproule/mathpage.htm>
  - ❖ **The Math Forum** - The Math Forum's Problems of the Week (PoWs) are designed to provide creative, non-routine challenges for students *in grades three through twelve*. Problem-solving and mathematical communication are key elements of every problem. Subjects include Math Fundamentals, Pre-Algebra, Algebra, Geometry, and PreCalculus – <http://forum.swarthmore.edu/pow>

### Real Life Math

- ❖ **Daily Lesson Plans created by New York Times Learning Network** - <http://www.nytimes.com/learning/teachers/lessons/mathematics.html> - Lessons tied to articles found in the New York Times. All necessary articles are contained online.
- ❖ **M&M Site for graphing** - Use this site to compare what colors of M & Ms your class found in bags of M & Ms and what colors of M & Ms should have been in the bag - <http://global.mms.com/us/about/products/index.jsp>
- ❖ **Plane Math** – A web site that hopes to improve access to mathematics and aeronautics curricula materials for **4th-7th** graders with physical disabilities and inspire and motivate students with physical disabilities to pursue aeronautics-related careers - <http://www.planemath.com/planemathmain.html>

### Research

- ❖ **Matheletics** - You never thought math was in sports? Just think about it.... Every sport uses numbers in some way, whether it's for scoring, determining averages, or figuring percentages. And when numbers are involved, it usually means math is as well. - <http://oncampus.richmond.edu/academics/a&s/education/projects/webunits/math/sport.html>
- ❖ **The MacTutor History of Mathematics Archive** - <http://www-gap.dcs.st-and.ac.uk/~history/>
- ❖ **What good is Math?** - We all use math every day, most of the time without even realizing it! Here are some situations that you may find yourself in on any given day. Each one involves the use of math skills. <http://oncampus.richmond.edu/academics/as/education/projects/webunits/math/home.html>
- ❖ **Women in Mathematics** - <http://www.math.umd.edu/~wim/>

### Miscellaneous

- ❖ **An Interactive Quiz (project instructions)** - [http://pblmm.k12.ca.us/PBLGuide/Guide/Interactive\\_Quiz.html](http://pblmm.k12.ca.us/PBLGuide/Guide/Interactive_Quiz.html)
- ❖ **Who Wants to Be a Millionaire?** - <http://www.esc20.net/etprojects/formats/sampler/fall99/kkwgss/default.html>
- ❖ **Add'm and Eve in the Garden** - <http://wwwed.fnal.gov/ntep/f98/projects/pppl/karrenc/presentgricegarden.html>
- ❖ **Chips A Tally** - <http://www.angelfire.com/nj3/tally/>
- ❖ **Barney Online**– changes monthly, requires shockwave; therefore VERY slow loading on a modem connection. Great site for the *pre-reader* - <http://www.barneyonline.com/us/html/kids/games/gameMenu.asp>
- ❖ **“Cool” site for kids** – sites designed for the pure enjoyment of mathematics. Subjects include: Algebra, Geometry, Calculus, and Trigonometry. Ages 13 – 100. Also check out their miscellaneous calculators (atmospheric pressure, radioactive decay, scientific, periodic tables, wind chill factor, and caloric) and the graphic calculator.

- **Cool Math** - <http://www.coolmath.com/home.htm> - mostly *middle school and high school*
- **Cool Math 4 Kids** – <http://www.coolmath4kids.com> – mostly *elementary*
- **Science Monster** – <http://www.sciencemonster.com>
- ❖ **Funbrain** – Subjects include Math, Language Arts, Science, History, Music, Geography, Art, Technology, and PE. **Ages 6 & under to 17 & up**. Also includes the Quiz Lab where you can give paperless quizzes to your class and have Quiz Lab automatically grades the quizzes and emails the results to you. - <http://www.funbrain.com/>
- ❖ **KidsPsych** - - This site was put together as a vehicle for parents and teachers to spend quality time with children, and to help them with cognitive thinking skills, deductive reasoning, and also just to have some fun! Uses Flash technology and can be slow loading on a modem connection. Divided **Ages 1-5 and 6-9** - <http://www.kidspych.org/>
- ❖ **Math Forum - K-12** The Math Forum is a leading center for mathematics and mathematics education on the Internet. The Math Forum's mission is to provide resources, materials, activities, person-to-person interactions, and educational products and services that enrich and support teaching and learning in an increasingly technological world. Topics include: Arithmetic, Algebra, Geometry, Pre-Calculus, Calculus, Prob/Stat, Discrete Math, College level math and Advanced math. - <http://mathforum.org/>
- ❖ **Math.com** –Explanations, sample problems and practice quizzes on Basic Math, Everyday Math, Pre-Algebra, Algebra, Geometry, Trigonometry, Statistics, and Calculus. - <http://www.math.com/>
- ❖ **Number Grouping - elementary** - This activity is useful for young children who are just beginning to learn how numbers are made up. The object is to group the ones into tens to see what numbers come up. – <http://www.edbydesign.com/btcount.html>
- ❖ **Tools for Understanding - Intermediate and Middle** - How to use spreadsheets, word processors, etc. in the Math Classroom. - <http://www.ups.edu/community/tofu/lev1f/conframe.htm>
- ❖ **Word Problems– Grades 5-12** – THIS IS NOT A TEST, but a set of carefully selected problems which can help you improve your problem solving skills -if you try to carefully think about how you would solve each problem, and once you have found the solution, you make sure that you understand all parts of the solution. You can try any problem you like and if the problem is a little difficult you can get helpful hints by following the hints link. This uses the same questions and is not interactive. – <http://www.stfx.ca/special/mathproblems/welcome.html>

### Teacher Helps

- ❖ **Calculator's On-Line Center** - <http://sun2.lib.uci.edu/~martindale/RefCalculators.html> – Every kind of calculator imaginable and some you never even thought of before
- ❖ **Dr. Math** – <http://mathforum.org/dr.math/dr-math.html>– Homework help for your students – *Elementary, Middle School, High School, College and Beyond*
- ❖ **How to use an Abacus** – <http://www.ee.ryerson.ca:8080/~elf/abacus>
- ❖ **Marmalade Man's Fantastic Math Tricks** - <http://www.angelfire.com/me/marmalade/mathtips.html> – deals with multiplication and squaring
- ❖ **Math Generator** - [http://www.schoolexpress.com/fws/online\\_math.htm](http://www.schoolexpress.com/fws/online_math.htm) - online or printable using addition, subtraction, multiplication or division.
- ❖ **Math.Com** – <http://www.math.com> - Math.com offers assessment, on-demand modular courses that target key math concepts, 24/7 live online tutoring, math calculators and expert answers to math questions. Information can be found concerning **Basic Math, Everyday Math, Pre-Algebra, Algebra, Geometry, Trigonometry, Statistics, Calculus and Advanced Topics**.
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### Places to Start Looking for Additional Sites

- ❖ **A Plus Math** - <http://www.aplusmath.com> - This web site was developed to help students improve their math skills interactively.
- ❖ **B.J. Pinchbeck's Homework Helper** - <http://www.bjpinchbeck.com/framemath.htm>
- ❖ **Blue Web'n** - <http://www.kn.pacbell.com/cgi-bin/listApps.pl?Mathematics> – a collection of Blue Ribbon Learning Sites on the Web
- ❖ **Cool Math** - <http://www.coolmath.com> - Coolmath.com has been designed for the pure enjoyment of mathematics
- ❖ **Cut the Knot** - <http://www.cut-the-knot.com> – Games, Activities, Discussions, Logic on almost any math topic imaginable.
- ❖ **Eisenhower National Clearinghouse for Mathematics and Science Digital Dozen** - <http://www.enc.org/weblinks/dd/> –changes on a monthly basis
- ❖ **ENC Online** - <http://www.enc.org/> - ENC Online is a K-12 math and science teacher center.
- ❖ **Florida State University Department of Mathematics** - <http://euclid.math.fsu.edu/science/Education.html> - This collection of Mathematics-related resources is maintained by the Florida State University Department of Mathematics as a free service to the online community.
- ❖ **Great Sites For Math Teachers** - <http://people.clarityconnect.com/webpages/terri/sites.html>
- ❖ **Math Archives** - <http://archives.math.utk.edu/k12.html> - Math Archives offers are Internet sites which contain significant collections of materials which can be used in the teaching of mathematics at the K-12 level.
- ❖ **Online Math Lesson Plans** - <http://www.learnersonline.com/weekly/subject/math.htm>
- ❖ **SCORE Math Resources** - <http://score.kings.k12.ca.us/> - Lists resources that have been selected and evaluated by a team of educators from across California. Resources were chosen for their accuracy, grade appropriateness, and richness.
- ❖ **The K-12 Connection** - <http://www.k12connection.org>
- ❖ **The Math Forum** - <http://mathforum.org/> & <http://mathforum.org/teachers/> - Here you'll find what is considered to be the best resources for teaching math at all levels. This space is not only for teachers, but has also been built in part by teachers. Their goal is to build an online community of teachers, students, researchers, parents, educators, and citizens at all levels who have an interest in math and math education.
- ❖ **WebQuests sponsored by SDSU** - <http://webquest.org/> - This site is hosted by the Educational Technology Department at San Diego State University. Updated continuously by Bernie Dodge. To see available WebQuests in your area of interest, click on Top, Middling or New on the left side of the page.