**Free Math Ideas and Resources**

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Why start with a search engine, when you can find a pathfinder to fit your needs at 42eXplore? When learning something new, it's nice to have more than one resource to explore. This web project provides "four to eXplore" for each topic. On each page you'll find definitions, activities, the 4 good starting points, and many more links and resources for the thematic topic. Go to the [About Site](http://www.42explore.com/about.htm) page for more information about the website.

<http://www.42explore.com/>



This web site was developed to help students improve their math skills interactively.

Visit our [game room](http://www.aplusmath.com/Games/index.html) and play exciting games like Matho and Hidden Picture...Test your math skills with our [Flashcards](http://www.aplusmath.com/Flashcards/index.html)! Try out the [Math Word Find](http://www.aplusmath.com/Games/Wordfind/index.html) puzzle.

Create and print your own set of flashcards online using the [Flashcard Creator](http://www.aplusmath.com/Flashcards/Flashcard_Creator.html)! See the [Worksheets](http://www.aplusmath.com/Worksheets/index.html) section, where you can print worksheets to practice offline. Try the [Homework Helper](http://www.aplusmath.com/Homework_Helper/index.html) to check your homework solutions.

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



AAA Math features a comprehensive set of interactive arithmetic lessons. Unlimited practice is available on each topic which allows thorough mastery of the concepts. A wide range of lessons (Kindergarten through Eighth grade level) enables learning or review to occur at each individual's current level.

Immediate feedback prevents practicing and learning incorrect methods, which is a common result of traditional homework and worksheets. Practice can continue as long as desired in a non-threatening format which helps build self-esteem and confidence.

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

![C:\Documents and Settings\Administrator\Local Settings\Temporary Internet Files\Content.IE5\KNOB8BE6\MCj03596110000[1].wmf]()Abacus Applet

Free interactive Abacus

<http://www.tux.org/~bagleyd/old/AbacusApp.html>

A Maths Dictionary for Kids 2008

An Animated, Interactive dictionary for students which explains over 600 common mathematical terms in simple Language

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



*Teacher resources and teacher professional development programming across the curriculum from math to social studies*

<http://www.learner.org/index.html>



<http://www.learner.org/teacherslab/>

The ArithmAttack

How many computer-generated arithmetic problems can you answer in 60 seconds?

<http://www.dep.anl.gov/aattack.htm>

 Ask Dr. Math

Students in elementary, middle and high school can write to Dr. Math to get help with math problems or seek enrichment. Questioners receive email answers from math students and professors at Swarthmore College or world-famous mathematicians.

<http://www.washington.edu/doit/Lessons/Mathematics/ask_dr_math.html>



Hello! I'm Aunty Math! You might like my [Math Challenges](http://www.dupagechildrensmuseum.org/aunty/index.html)! Your parents and teachers might like my book about [Powerful Problem Solvers](http://books.heinemann.com/products/E00431.aspx) or the [Rekenrek](http://www.rekenrek.com/)! Thank you for visiting me and for wanting to learn math!

This site offers math challenges for students

[**http://www.auntymath.com/**](http://www.auntymath.com/)



**Online Assessment;** Click on the state of Nevada and from there you can choose assessments for grades 3-8. The assessment will automatically be scored

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



Pre-K–6 resources for teachers, students, and families to support instruction in the classroom and at home

<http://www.eduplace.com/index.jsp?state=nv&audience=_t&submit.x=31&submit.y=23>



Information for teachers on cooperative learning

<http://www.sedl.org/scimath/compass/v01n02/1.html>

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Teacher resources and student activities on a wide range of topics

<http://www.ciconline.org/home>



Use this site if you want to compare data gathered by your class and compare it to kids nationwide.

<http://www.childstats.gov/>

|  |  |
| --- | --- |
|  | U.S. Map |
| This is one you have got to try! Here you’ll find all sorts of activities in support of all of the textbooks we use in the district. Enough said!<http://www.classzone.com/cz/index.htm> |

Bottom of Form



Lemonade Stand Introduction

Hi, and welcome to Lemonade Stand! Your goal in this game will be to make as much money as you can within 7, 14 or 30 days. To do this, you've decided to open your own business -- a Lemonade Stand! You'll have complete control over almost every part of your business, including pricing, quality control, inventory control, and purchasing supplies. You'll also have to deal with the weather, which can be unpredictable. Unfortunately, the weather will play a big part when customers are deciding whether or not to buy your product.

<http://www.coolmath-games.com/lemonade/>



This site provides the graph and you provide the information to create the graph.

<http://nces.ed.gov/nceskids/createagraph/>



Activities involving cube nets

<http://illuminations.nctm.org/activitydetail.aspx?ID=84>



Here is a list of resources in Data Analysis and Probability including lessons and useful data sets.

<http://www.mste.uiuc.edu/stat/stat.html>



District paid resource free to educators with tons of information on full spectrum of topics.

<http://search.ebscohost.com/Community.aspx?authtype=ip&ugt=7436359634763E4635663477387735342EE262D36113609362E320E33013360335&return=y>



Grades 1-12 – This site has worksheets for all subjects. There are some that are free. A fee of $19.99 per year is charged for access to all the worksheets and activities.

<http://edhelper.com/>



Grades 1-12 – this site includes math manipulative programs for counting money, reading and setting clock, pattern block, fractal, value of Pi, and much more

<http://www.arcytech.org/java/>



Math and science have never been more important to the future of our children and our nation. ENC provides the resources and support for math and science educators needed to help raise student achievement in these vital subjects.

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



K-12 – Online museum that has interesting and exciting activities for everyone.

<http://www.exploratorium.edu/>



Since 1998, Fantasy Stock Market® has provided a fun, interactive and competitive way to learn about investing and the stock markets to over 3/4 Million individuals and 10,000 Leagues.

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



Grades 2-6 -- This site contains activities that children and parents can do at home as well as materials for teachers to use.

<http://www.figurethis.org/index.html>



**Grades 2-6 – Here are some fun math games for kids to play.**

[**http://www.funbrain.com/**](http://www.funbrain.com/)



Grades K-6 – This site offers interactive games and activities on a variety of topics.

<http://funschool.kaboose.com/>



This site provides direct interaction with geometric curve-drawing devices

<http://homepage.mac.com/dscher/intcircles.html>



Homeschool Math has several worksheet generators that can create a variety of worksheets from a comprehensive list of concept areas. You can customize the worksheets with many varied options, so can make them easy or difficult according to the student's level, with lots or less problems, with big or small fonts, etc. Each time you get a different worksheet since they are generated randomly.

<http://www.homeschoolmath.net/worksheets/>



Math glossary for grade 1-8

<http://www.hbschool.com/glossary/math2/index_temp.html>



Grades 7-12 – Just like the real stock market you can buy shares of your favorite actors and their movies to watch the value of the stocks rise or fall depending upon their success.

[**http://www.hsx.com/cms/**](http://www.hsx.com/cms/)



The Hot Potatoes suite includes six applications, enabling you to create interactive multiple-choice, short-answer, jumbled-sentence, crossword, matching/ordering and gap-fill exercises for the World Wide Web. Hot Potatoes is not freeware, but it is free of charge for those working for publicly-funded non-profit-making educational institutions, who make their pages available on the web. Other users must pay for a license. Check out the Hot Potatoes licensing terms and pricing on the [Half-Baked Software Website](http://www.halfbakedsoftware.com/).

<http://web.uvic.ca/hrd/halfbaked/>

**Hot Shot Business from Disney – This simulation game allows you to set up your own business.**



<http://spapps.go.com/hsb4/landing/>



Grades 4-12 – Find and use the interactive online math investigations for any grade level.

<http://illuminations.nctm.org/>



Grades 4-12 – this site has numerous interactive activities to choose from.

<http://www.cut-the-knot.org/index.shtml>



Kathy Schrock's Guide for Educators is a categorized list of sites useful for enhancing curriculum and professional growth. It is updated often to include the best sites for teaching and learning.

<http://school.discoveryeducation.com/schrockguide/>





<http://www.eduplace.com/kids/mhm/>

Grades 1-6 – Practice tests and brain teasers found here.

Suzanne Alejandre
Information Links **Links to Information on Number Systems**

Math lessons and workshop ideas

<http://mathforum.org/alejandre/numerals.html>



Resources for mathematics history information

<http://www-history.mcs.st-and.ac.uk/>

TOUCHMATH

Now is your chance to try TouchMath products at absolutely no charge to you! Our commitment is to see that you choose the most appropriate TouchMath materials for your students before you invest a single penny in our products. Borrow the complete teacher training video/DVD so you know how the program works. Print the sample worksheets of your choice for each grade level. Sign up for our monthly e-news for up-to-date news and exciting offers. Send for a complete catalog. And, always know that our products are 100% guaranteed—period.

<http://www.touchmath.com/index.cfm?fuseaction=freestuff.welcome>

Math - About - Me!

An example of a class that used data to tell about themselves in the area of mathematics

<http://www.mrsmcgowan.com/math/mathaboutme.htm>



Grades 1-8 -- Includes some online games for students to play.

<http://www.harcourtschool.com/menus/math_advantage.html>



**Free printable math worksheets for elementary school and home use. This includes generators for math drills, flashcards, time, and money!**

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

Math Forum

Check out the student center as well as the teachers’ place for plenty of activities and lessons

<http://mathfourm.org/>



Lots of activities that relate to how math is used in real life situations such as cooking, buying a car, and gambling

<http://www.learner.org/interactives/dailymath/>



MathMastery.com is a leading website dedicated to helping students, teachers and parents learn, practice, and understand essential math skills. Students who participate in MathMastery's online courses can expect to increase their understanding of math concepts. Parents can trust MathMastery to provide sound instructional guidance. Teachers can rely on MathMastery for daily creative and original thematic math problems.

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



With The Math Worksheet Site you can create an endless supply of printable math worksheets. The intuitive interface gives you the ability to easily customize each worksheet to target your student's specific needs. Every worksheet is created when you request it, so they are different every time. This way you can add the practice that your student needs to a curriculum you already like, or you can be freed from the constraints of a workbook or textbook that gives either too much or too little practice if you would rather direct the studies yourself.

<http://themathworksheetsite.com/>



Online math practice activities as well as printable worksheets

<http://www.lizardpoint.com/math/index.html>

**Web Based Projects**

This page contains web-based projects created by students at the University of Richmond in partial fulfillment of the requirements for teacher licensure in the state of Virginia. For more than 12 years we have been creating, revising and maintaining these materials as educational resources for teachers across the United States and the world.

<http://oncampus.richmond.edu/academics/education/projects/>



**Grades 3-6;** A great site which enables students to see reasoning behind graphs, maps, algorithms with picture support. Gives you a chance to explore background information, vocabulary, activities, materials and evaluation.

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

 **Megashapes**

**Grades 3-5;** Students will have "mega-fun" working with triangles, squares, rectangles, octagons, and other shapes. The site includes audio descriptions, diagrams, glossaries, teacher notes, and explanations of how 2-D shapes are transformed. Activities include matching properties with shapes, interactive quizzes, and puzzle building.

<http://www.sciencenetlinks.com/tools.cfm?DocID=82&Grade=3-5>



**Grades 6-12;** Great resource toteach children to manage money wisely and develop good financial habits. Lesson plans are provided as well as tips for teachers, parents and students.

<http://www.themint.org/index.html>

![[image]]()

**Grades 8-12;** Interactive math lessons, worksheets, and homework help.

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



**Grades K-12;** Resources range from lesson plans, activities, journal articles, websites, strategies, and standards for all math teachers.

<http://www.nctm.org/>



**Grades 9-12;** This site offers an array of online educational tools aimed at computational science instruction in math and science classrooms.

<http://www.ncsec.org/>

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**Grades 9-12;** A good site to use for gathering, comparing, and plotting data as you will find climate records and detailed descriptions.

<http://www.noaa.gov/>



**Grades 4-7;** Students can learn about the mathematics required to fly planes-interactively.

[PLANEMATH.COM](http://www.planemath.com/)

**Principals and Standards for School Mathematics**

\*Find out about building connections between class-time learning and the outside world along with examples of applying principals and standards for Curriculum, Professionals, and Assessment.

<http://standards.nctm.org/>

**Project Poster**

**\*Grades 4-12;** this site allows educators to create a lesson, worksheet, or class page and immediately publish it online. Teachers can also set up classes and assign projects to students. Students complete the assignments by creating their own online projects or reports. Teachers and students can even add images and links to their pages.

<http://poster.4teachers.org/>

Project SkyMath

\***Grades 6-8;** gives a mathematics teacher 16 classroom activities and the module of SkyMath, an efficient way to incorporate content standards into lessons.

<http://eo.ucar.edu/skymath/>

 **Puzzle Maker**

**\*Grades K-12;** Puzzle maker is a puzzle generation tool for teachers, students, and parents. Create and print customized word searches, crossword and math puzzles. You can also search for puzzles that have already been created.

<http://puzzlemaker.discoveryeducation.com/>



**\*Grades K-12;** You can create web pages, activities, games, and quizzes. There is a charge of $49 a year for this site.

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



**Grades 2-12;** A powerful tool you can use to create, administer, and grade quizzes online. You’ll be able to make online quizzes that provide instant feedback to you and your students.

<http://school.discoveryeducation.com/quizcenter/quizcenter.html>



**Grades 2-12;** You will be able to create a custom quiz that others can take online. If you have lesson plans centered around Internet websites or you want students to be able to do take-home assignments over the Internet then this the site for you! There is a yearly fee of $39

<http://quizstar.4teachers.org/>

 **Math**

**Primary grades**; Educational activities and worksheets for telling time, addition, subtraction, geometry, fractions, social studies, science, music and more!

<http://www.netrover.com/~kingskid/108.html>



**Grades K-12;** Registered users can save, edit and print rubrics online. Also choose from rubrics others have created. You can access them from home, school, or on the road.

<http://rubistar.4teachers.org/index.php>



Free Algebra Worksheets: Algebra worksheets for multiplication equations, one step equations, subtraction equations, addition equations, addition and subtraction equations, two step equations.

Enter the type and number of equations you want in the generator window to create tailor made worksheet. Target the areas your students need to work on.

<http://www.softschools.com/math/worksheets/algebra_worksheets.jsp>



Have you ever wondered where to find math drill worksheets? Make your own here at SuperKids for free! Simply select the type of problem, the maximum and minimum numbers to be used in the problems, and then click on the button! A worksheet will be created to your specifications, ready to be printed for use. The following concept areas are available:

[Addition](http://superkids.com/aweb/tools/math/add/), [Subtraction](http://superkids.com/aweb/tools/math/subtract/), [Mixed Addition and Subtraction](http://superkids.com/aweb/tools/math/mixed/mixed1.shtml), [Multiplication](http://superkids.com/aweb/tools/math/multiply/), [Division](http://superkids.com/aweb/tools/math/divide/), [Order of Operations](http://superkids.com/aweb/tools/math/order/), [Fractions](http://superkids.com/aweb/tools/math/fraction/), [Percentages](http://superkids.com/aweb/tools/math/percent/) ,[Greater than / Less than](http://superkids.com/aweb/tools/math/compare/) ,[Odd or Even?](http://superkids.com/aweb/tools/math/odds_evens/) ,[Rounding](http://superkids.com/aweb/tools/math/round/) ,[Averages](http://superkids.com/aweb/tools/math/average/) ,[Exponents](http://superkids.com/aweb/tools/math/exponents/), [Factorials](http://superkids.com/aweb/tools/math/factorials/), Prime Numbers, [Telling Time](http://superkids.com/aweb/tools/time/)

[www.superkids.com/aweb/tools/math](http://www.superkids.com/aweb/tools/math)



**Grades 3-6;** You will find various math hunts in social studies and science that require students to use various math skills. Students will travel to various Internet sites to solve math problems.

<http://teacher.scholastic.com/mathhunt/>



**Grades 3-6;** Each mystery focuses on a particular area of math reasoning and computation. This site requires students to use creative thinking and sharp math skills to help find the solution.

<http://teacher.scholastic.com/maven/>



**Grades K-2;** This is a math and language arts games created specifically for students in primary grades. Each adventure focuses on one math skill integral to the curriculum with a language arts script.

<http://teacher.scholastic.com/max/index.htm>



**School Bus Geometry**

**Grades 6-8;** Measuring Distances using a school bus as explanations.

<http://math.rice.edu/~lanius/Geom/schbus1.html>



**Grades 6-12;** The Stock Market Game™ (SMG) gives students the chance to invest a hypothetical $100,000 in an on-line portfolio. They think they're playing a game.

<http://www.smg2000.org/index.html>

# http://mathforum.org/alejandre/workshops/hedraleft.gifStudying Polyhedra

# Grades 5-8; Students are able to use the 3d model to explore the polyhedral, faces, polygons, and edges. Also gives additional links to associate with the polyhedral.

# <http://mathforum.org/alejandre/applet.polyhedra.html>

# Interactivate

# Grades 3-8; Allows students to explore different areas of math with java applets and figures. The goal is to advance science and math education through the use of computational science, modeling, and technology.

# <http://www.shodor.org/interactivate/activities/>

# Teach R Kids Math

# **Grades K-6**; Math elementary school children with problem solving worksheets, drills, addition, subtraction, division, multiplication, counting, number sense etc.

# <http://www.teachrkids.com/>

# Thirteen Ed Online Tracing Math’s Evolution

# Grades 5-8; Students use the Internet to discover the identities of several current and historically significant mathematicians.

# <http://www.thirteen.org/edonline/lessons/mathevolution/index.html>

# NLVM

# Grades PreK-12; Virtual manipulatives for all types of math are found here.

# <http://nlvm.usu.edu/en/nav/vLibrary.html>



**Grades 2-12;** Virtual models for fractions and the number operations with them using number lines or circles.

# <http://www.visualfractions.com/>

# WebMath - Solve your math problem today

# Grades K-12; This site is composed of math “fill in forms” in which you can type any math problem. Linked to the forms is a powerful set of math-solvers that can instantly analyze your problem. It also shows you step by step directions on the solution!

# <http://www.webmath.com/index.html>

# What Good is Math?

# Grades 4-12; Contains 6 different scenarios for you to problem solve using an everyday situation.

# <http://oncampus.richmond.edu/academics/education/projects/webunits/math/>

# http://discoveryeducation.com/images/de_header/PRE/logo.jpgWorksheets to Go

# Grades K-12; Create your own worksheet or use one that has already been generated.

# <http://school.discoveryeducation.com/teachingtools/worksheetgenerator/wtg/index.html>

# World Climate

# Grades K-12; A good site to gather data about weather/climate for the day from any city in the world!

# <http://www.worldclimate.com/>