

## List of On-line Math Activities

Access these sites through your computer's Internet connection. Keep in mind that online lessons and webquests may appear on more than one site.

**Many of these programs need shockwave:**

[Math Forum](#) - The Math Forum is a leading centre 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.

[Ask Dr. Math](#) - Have a question - get help here!

[The Math Forum - Internet Mathematics Library](#)

[NCTM Illuminations](#) - this site has online lessons covering all sorts of math concepts.

[MathMastery.com](#) - of specific interest is the Family Fun activities that can help you use math around the home with your children.

[Figure This: Math Challenges for Families](#) - Get involved helping your child understand math concepts!

View the [Math index](#) to see all challenges.

[Math Dictionary for Kids](#) - A Math Dictionary for Kids is a colourful Website that defines 400 common mathematical terms in simple language. The terms are organized alphabetically, and an activity or visual example accompanies each definition. For example, for the term "analog clock," students can practice figuring out the time on a clock graphic. This Website uses Macromedia Flash.

[CoolMath4Kids](#) - This interactive math Website describes itself as an "amusement park of math" and is divided into sections for parents, teachers, kids aged 3 to 12, and kids "aged 13 to 100." The site features activities, games, and lessons in a variety of Math areas such as fractals, algebra, and geometry. Our Math Co-ordinator, Ted Keating was impressed with the 3D wire frame and Splash animation in the ages 13 to 100 section.

**[Fun math, games, and tutorials websites](#)**

## Mostly elementary

### **Dositey.com**

Educational games, interactive mini lessons, worksheets covering math topics of all elementary grades.

[www.dositey.com/](http://www.dositey.com/)

### **Funbrain**

has lots of nice games with many different topics.

[www.funbrain.com/kidscenter.html](http://www.funbrain.com/kidscenter.html)

### **Count Us In**

15 games designed to help children understand basic number concepts (kindergarten level). You can also download the games to play on your PC/Mac.

[www.abc.net.au/countusin/default.htm](http://www.abc.net.au/countusin/default.htm)

### **Primarygames: Math**

Lots of interactive exercises and games for topics K-4

[www.primarygames.com/curriculum/math.htm](http://www.primarygames.com/curriculum/math.htm)

### **Math Doodles**

Seven fun well-done games that also make kids think and learn. A place where children can discover the joy, wonder, and fun of mathematics.

Requires Shockwave player.

[www.carstensstudios.com/mathdoodles/mathdoodles.htm](http://www.carstensstudios.com/mathdoodles/mathdoodles.htm)

### **Math Playground**

A large collection of interactive word problems, math games and puzzles for elementary school students.

[www.MathPlayground.com/](http://www.MathPlayground.com/)

### **Online Kids Games from Apples4Teacher.com**

Online kids games from Apples4Teacher.com

Includes geometry, measurement, money, time, operations, number sense games.

[www.apples4theteacher.com/math.html](http://www.apples4theteacher.com/math.html)

### **AplusMath.com games**

Practice the basic operations with matho (bingo and math combined), hidden picture, concentration, and planet blaster games.

[www.aplusmath.com/Games/](http://www.aplusmath.com/Games/)

## **Magnet**

Internet maths magazines (or on-line mathzines) with interactive games and puzzles - Meenie Minus is for elementary, Kaleidoscope for middle school.

[www.mathsyear2000.org/magnet/](http://www.mathsyear2000.org/magnet/)

## **Primary Games**

A collection of math related games that you can also download and play offline at home. Check out the *Banana hunt* for learning angles or *Billy Bug returns* for learning coordinates!

[www.primarygames.co.uk/](http://www.primarygames.co.uk/)

## **Math Advantage from Harcourt**

Click on a grade and you'll get a list of interactive games and concentration puzzles on different topics.

[www.harcourtschool.com/menus/math\\_advantage.html](http://www.harcourtschool.com/menus/math_advantage.html)

## **iKnowThat.com math games**

Quizzes, arithmetic & geometry workshops, games on money, geometry, fractions, and more.

[www.iknowthat.com/com/L3?Area=L2\\_Math](http://www.iknowthat.com/com/L3?Area=L2_Math)

## **ICT Games**

Find games for addition, subtraction, time, shape and measures, more/less, odd/even, doubles, place value, and more.

[www.ictgames.com/resources.html](http://www.ictgames.com/resources.html)

## **Maths Zone**

Click on KS1/KS2 in the top menu, and then on the left side colored menus for a list of games on just about every elementary math topic.

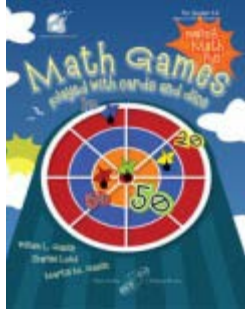
[www.mathszone.co.uk/](http://www.mathszone.co.uk/)

## **Mathwire.com**

Innovative and creative board games, activities and worksheets for many math topics.

[www.mathwire.com](http://www.mathwire.com)

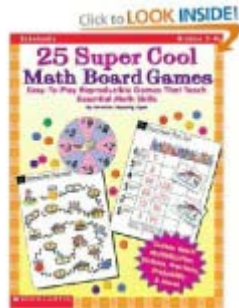
## **Books: Math Games**



### **I Play Math Games.com**

Offers downloadable or printed workbooks filled with math games, many with ordinary dice and playing cards. Also individual games downloads and freebies.

[iplaymathgames.myshopify.com](http://iplaymathgames.myshopify.com)



### **25 Super Cool Math Board Games**

A large collection of reproducible board games for grades 3-6 that build key skills: multiplication, division, fractions, probability, estimation, mental math, and more.

[amazon.com](http://amazon.com)

### **Math Card games** by Joan A. Cotter

Part of the RightStart Math program, this book contains 300 card games that can be used with any math curriculum. They provide practice both for learning concepts and the facts. Chapters on numeration, addition, subtraction, multiplication, division, money, clocks, and fractions.

[www.activitiesforlearning.com](http://www.activitiesforlearning.com)

## **Fun with math / Puzzles**

### **Brain Teasers from Pedagonet**

Neat little general brain teasers for kids to enhance problem solving abilities.

[www.pedagonet.com/brain/brainers.html](http://www.pedagonet.com/brain/brainers.html)

### **Cut The Knot**

A site full of games, puzzles, illustrations, charts, paradoxes, illusions, mathematical doodles - often illustrated with interactive Java applets. You can learn a lot!

[www.cut-the-knot.org/](http://www.cut-the-knot.org/)

### **Math Cats**

Fun math for kids: math crafts, explorations, art gallery, and more.

[www.mathcats.com/](http://www.mathcats.com/)

### **Math Is Fun!**

Lessons, puzzles, worksheets, games.  
[www.mathisfun.com/](http://www.mathisfun.com/)

### **Tim's Interactive Puzzle Solution Center**

Famous and other curious brain teasers in interactive form. Includes both easy and more difficult ones.  
[sakharov.net/puzzle/](http://sakharov.net/puzzle/)

### **Coffee Shop**

A fun animated game where each day you first buy inventory (coffee, cups, milk, and sugar), set the recipe and price, and then watch customers buy and comment on your prices and taste of coffee. The aim is to make the most money, of course.  
[www.hoodamath.com/games/coffeeshop.php](http://www.hoodamath.com/games/coffeeshop.php)

### **Web Kendoku**

KenDoku is a mathematical and logical puzzle based on KenKen™ and loosely similar to sudoku. It combines the idea of Sudoku where each digit is used only once in a row or column, and adds the usage of the four basic operations. This is addictive and fun!  
[www.webkendoku.com](http://www.webkendoku.com)

### **Nick's Mathematical Puzzles**

A collection of high school/college level math puzzles ranging over geometry, probability, number theory, algebra, calculus, and logic. Hints are provided, along with answers, fully worked solutions, and links to related mathematical topics.  
[www.qbyte.org/puzzles/](http://www.qbyte.org/puzzles/)

### **SpaceTime Arcade**

Math games and puzzle games to enjoy.  
[www.spacetime.us/arcade/](http://www.spacetime.us/arcade/)

### **Maths Zone**

An interactive role-play adventure game/movie for those who like adventure. Help Ben and Mai to escape a castle where they are held by two bank robbers and reach the local police station in time to stop the robbers. It will take about 20 minutes to complete all four challenges. Suitable for middle school level.  
[www.channel4.com/learning/microsites/M/mathszone/](http://www.channel4.com/learning/microsites/M/mathszone/)

### **Googol Learning**

Googols of fun combining math, music and stories into albums. Also free

videos, articles, fun contests, and more.  
[www.googollearning.com/](http://www.googollearning.com/)

### **Solid Gold Gnarly Math**

Offers a free silly newsletter and a CD-ROM that both teaches and entertains with math.  
[www.gnarlymath.com/](http://www.gnarlymath.com/)

### **Humor of the Week from MathNEXUS**

Archive of a weekly humorous math piece.  
Downloadable posters portraying classic mistakes students often make, with funny identifying phrases.  
[mathnexus.wvu.edu/Archive/humor/list.asp](http://mathnexus.wvu.edu/Archive/humor/list.asp)

### **Gallery of Classic Math Mistakes**

Downloadable posters portraying classic mistakes students often make, with funny identifying phrases.  
[www.calculatorsoftware.co.uk/classicmistake/gallery.htm](http://www.calculatorsoftware.co.uk/classicmistake/gallery.htm)

### **Sudoku-Puzzles.net**

Lots of free Sudoku puzzles. Play online, print it out or export as PDF. Also free puzzles to newspapers, magazines, teachers.  
[www.sudoku-puzzles.net/](http://www.sudoku-puzzles.net/)

### **Curious Math**

Fun and fascinating math tricks, mental methods and trivia.  
[www.curiousmath.com/](http://www.curiousmath.com/)

### **A+ PLUS MATH**

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

A fun site where kids can learn math interactively. Sections: Game Room, Flash Cards, Homework Helper and Worksheets. Excellent

### **AAA MATH**

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

A huge site for basic math skills. Set up by grade level or math topic. Challenges and games. Excellent

### **ALLMATH.COM – MATH SITE FOR KIDS**

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

A huge site with problems, calculators, converters, flash cards and more. Sections: Math Tools, Flash Cards, Metric Converter, The Magic Square (game), Math Glossary, Multiplication Table, Metric Conversion Factors and lots of links. Excellent

## COOLMATH.COM – AN AMUSEMENT PARK OF MATH

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

Calculators, games, worksheets, word problems and more. Sections: Too Cool to Miss; Fractals; Math, etc.; Math Lesson, etc.; Coolmath Link Center; Fractions; Calculators; Graphing Calculators and more. A fun site that helps kids learn. Excellent

## CORNELL THEORY CENTER MATHEMATICS GATEWAY

<http://www.tc.cornell.edu/Services/Edu/MathSciGateway/math.asp>

A huge number of math links. Excellent

## CURIOUS MATH.COM

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

A collection of math tips and tricks. Better than it sounds. Excellent

## ENC K-12 MATH AND SCIENCE TEACHER CENTER

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

A collection of resources for teaching K-12 math and science. Includes lesson plans, curriculum resources, links and more. Excellent

## EQUIVALENCE – AN I-MATH INVESTIGATION

<http://illuminations.nctm.org/imath/across/balance/index.html>

An online math game on equivalence. *"In this i-Math Investigation, the concept of equivalence is explored within the algebra strand initially using a virtual representation of a physical pan balance and gradually moving towards more abstraction."* Excellent

## ESCAPE FROM PLANET KNAB

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

Escape from Planet Knab by correctly figuring savings from wages. Excellent

## THE EXPLORER

<http://explorer.scrtec.org/explorer/>

*"The Explorer™ is a collection of educational resources (instructional software, lab activities, lesson plans, student created materials ...) for K-12 mathematics and science education. You may browse through mathematics and science education curricula (we plan to expand to other 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."*

Contains a complete math curriculum. Excellent

### **FACTOR GAME**

<http://illuminations.nctm.org//imath/6-8/FactorGame/index.html>

A math game. *"The Factor Game engages students in a friendly contest in which winning strategies involve distinguishing between numbers with many factors and numbers with few factors. Students are then guided through an analysis of game strategies and introduced to the definitions of prime and composite numbers."*

Excellent

### **FIGURE THIS! MATH CHALLENGES FOR FAMILIES**

<http://www.figurethis.org/index40.htm>

A series of challenges for students and families, all of which involve math. Note: You must download the software to take the challenges. Challenges include math computation, measurement, geometric shapes and more.

Excellent

### **A GALLERY OF INTERACTIVE GEOMETRY**

**NEW!**

<http://www.geom.uiuc.edu/apps/gallery.html>

Sections: WebPisces; Projective Conics; Build a Rainbow; Orbital Pinball; Quasi Tiler; Teichmuller Navigator; Kali; Integrator; and Unifweb. Excellent

### **HANDLEY MATH PAGE**

<http://www.pen.k12.va.us/Div/Winchester/jhhs/math/mathhome.html>

A high school level math page with extensive information. Sections: Math Humor, Problem of the Week, Math Facts, Puzzles, Math Poems & Songs, Lesson Plans, and Math Quotes. The lesson plans include Algebra, Geometry, Trigonometry, Statistics and Calculus Activities. Excellent

### **THE MACTUTOR HISTORY OF MATHEMATICS ARCHIVE**

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

A collection of indexes of mathematics topics. Sections: Biographies Index, History Topics Index, Famous Curves Index, Mathematicians of the Day, and more. Excellent

### **MANIPULA MATH**

<http://www.ies.co.jp/math/java/>

A collection of almost 300 math applets for middle to high school students. Sections: Middle School (Geometry), Trigonometry, Calculus, Vector, Complex Numbers, Conics, and Miscellaneous. Excellent

### **MATH CATS – MATH FUN FOR KIDS**

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

Fun math projects and activities. Sections: Math Cats Explore, Math Cats

Love Microworlds (projects), Math Crafts, Math Cats Art Gallery, Math Cats Attic and Math Cats Love Mail. Excellent

### **MATH IN DAILY LIFE**

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

Math is used all the time in daily life. This PBS companion site discusses the use of math in different situations. Sections: Playing to Win, Savings & Credit, Population Growth, Home Decorating, Cooking by Numbers, The Universal Language, and Related Resources. Excellent

### **MATH-KITECTURE – REAL LIFE MATH, ARCHITECTURE AND COMPUTERS**

<http://www.nycenet.edu/oit/math-kitecture/>

*"Students can become architects in their mathematics classrooms. Math-Kitecture has a number of activities, including "Floor Plan your Classroom," which offer engaging ways for students to study mathematics by doing real-life architecture. Students learn estimation, measuring skills, proportion, and ratios by hand-drafting a floor plan of their classroom to scale."* Excellent