



Discover
Mathematics!

7th and 8th Grade Internet Math Resources

Top Five Recommended Sites!

<http://www.khanacademy.org>

<http://www.portangelesschools.org/students/wasl-math-index.html>

<http://www.sheppardsoftware.com/math.htm>

<http://www.ixl.com>

http://www.missmaggie.org/scholastic/roundtheworld_eng_launcher.html

Problem of the Week POW:

<http://www.colstate.edu/mathcontest/problem.php?CategoryID=2&LinkID=Current>

Evaluating Algebraic Expressions

<http://www.studygs.net/pemdas/index.htm>

Solving Equations:

<http://www.studygs.net/equations.htm>

Solving Equations: Video Tutorial Resources:

<http://studio4learning.tv/math/pre-algebra/basic-algebra/equations/>

http://www.teachertube.com/viewVideo.php?video_id=40517

Math Crossword Puzzles

http://www.educationworld.com/a_lesson/archives/numbercross.shtml

Percents and Ratios:

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

Basic Functions:

<http://shodor.org/interactivate/activities/FunctionMachine/>

Data and Statistics:

<http://www.mathleague.com/help/data/data.htm>

<http://math.rice.edu/%7Elanius/Algebra/hottub.html>



Discover
Mathematics!

7th and 8th Grade Internet Math Resources

http://highered.mcgraw-hill.com/sites/007281733x/student_view0/interactive_graphic_index.html#

Line Graphs:

<http://www.studyzone.org/testprep/math4/d/problemgraph4l.cfm>

Bar Graphs:

<http://www.studyzone.org/testprep/math4/d/bargraphs4l.cfm>

Mean-Medium-Mode:

<http://standards.nctm.org/document/eexamples/chap6/6.6/index.htm>

<http://www.beaconlearningcenter.com/WebLessons/BasketballDebate/default.htm>

<http://www.beaconlearningcenter.com/WebLessons/BicyclesAlaMode/default.htm>

Webquests:

Fractals: Math or Art???

<http://www.district87.org/staff/hallk/firstwebpage/fractals.htm>

In this activity you will be exploring Geometric fractals and their connections to math, art, and nature. What *is* a fractal? Is it more than an interesting shape? Who uses them and for what reason? In this Web Quest you will find answers to these questions and begin your understanding of fractals.

Ms. Reddy's Stock WebQuest

<http://www.wfu.edu/%7Emccoy/NCTM00/steph.htm>

You have just won \$10,000!! CONGRATULATIONS! Now, what are you going to do with this money? You can invest it to potentially make more money, just stick it in the bank, or you can do a combination of both. It is up to you but remember, these are big decisions because you could lose some of your money (if not all) or you can make hundreds! Good luck investing!



7th and 8th Grade Internet Math Resources

WHO WANTS TO BE A MILLIONAIRE??

http://www.personal.psu.edu/faculty/j/x/jxz8/Student_Webquests/Neu_Sel_Yar/Questts/Ourquest

This webquest will allow you to explore the possibility of becoming a millionaire by investing different sums of money in two types of investments; certificates of deposit (CDs) and mutual funds. (Note: For the purposes of this webquest, assume that interest rates will remain constant during your lifetime - this may or may not hold true. Also, this webquest does not take into consideration the taxes you would be required to pay on your earnings).

Yellowstone Caldera

<http://www.members.tripod.com/tdebuff/webquest.htm>

Yellowstone Park sits directly over a hot spot. The volcano is quiet today, only the geysers and hot springs remind us that there is a huge volcano under the beautiful scenery. Only 600,000 years ago a huge eruption filled the area with lava flows. After the huge eruption there was a void under the top of the volcano. The weight of the volcano caused the top to come crashing down forming the large caldera in the park. Since the hot spot remains active, another giant eruption will almost certainly occur. The question is, when?

Pi Day Celebration

http://www.mathgoodies.com/webquests/pi_day/

Pi Day is a holiday that celebrates the constant (pronounced Pi). The Greek letter π is the symbol for the ratio of the circumference of a circle to its diameter. Pi equals 3.1415926535... Thus, Pi Day is observed on March 14, since the digits in this date correspond with the first three digits of Pi. You have been selected to learn about the meaning, calculations, and history of Pi. You will also celebrate Pi Day with various online activities.

Finishing Your House Webquest-

<http://www.mhcbe.ab.ca/ict/Projects/home/home.htm>

Congratulations you have just won a new house. There is one "catch" however before you can take possession of your humble abode. You have to decorate your house. It has no floor covering, paint, wall paper, doors, baseboards, or bathroom fixtures. You must decide what you want in your house and then find out the cost of the product. There is one other "catch"



Discover
Mathematics!

7th and 8th Grade Internet Math Resources

- you have \$25 000 and not one penny more. If you decorate your house for less then \$25 000 you get to keep the extra money! (Hypothetically of course).

7th Grade Integer Webquest

<http://teacherweb.com/MA/KingPhilipMiddleSchool/MrsMcGovern-7thGradeMathematics/ap3.aspx>

A Webquest on Evaluating Math Games

<http://www.madison.k12.ky.us/district/projects/WebQuest/MathGames/mathgames.htm>

Welcome to the world of games! The Internet is full of games that are entertaining and educational. Wouldn't it be great if your teacher would let you play these games in class or you parents would let you play the games instead of studying your math book? After evaluating these games, this may be possible!

A Creative Encounter of the Numerical Kind

<http://studenthome.nku.edu/~webquest/gabbard/index.htm>

The year is 2073 A.D. and the President of the United Nations has drafted you (because of your famous mathematical brain) to join a team of mathematical consultants to travel to Zonetia, a recently discovered planet in a neighboring galaxy. King Zoppo (he's the green guy on the Home page) of the Zony Tribe on Zonetia insists that his primitive society cannot begin to make technological advancements unless they have guidance to develop a brand-new *base 4* number system to fit the Zonies' two-fingered hands. That's right; they have two hands just like you, but each hand has only two fingers. Therefore, they need a specially-tailored number system with only four symbols. In order to best preserve Zony culture, King Zoppo, in his wisdom, has requested that the new number symbols be *different* than those used on Earth.

Currency Exchange and The Gang of Fifteen

<http://ecedweb.unomaha.edu/gang1.htm>

One of the many challenges of traveling in foreign countries is trying to determine how much things actually cost in dollars, even though we are using



7th and 8th Grade Internet Math Resources

local currency. This activity provides students with that opportunity as they "travel" around the world on the trail of the gang of fifteen.

Franchise

<http://projects.edtech.sandi.net/memorial/franchise/index.htm>

Plan to open a restaurant

Unit Conversion:

<http://www.walter-fendt.de/m11e/conversion.htm>

Fractions

<http://math.rice.edu/%7Elanius/Patterns/index.html>

<http://math.rice.edu/%7Elanius/fractions/index.html>

Exploring checkerboard Squares

<http://math.rice.edu/%7Elanius/domath/index.html>

Intermediate- Shopping FUN!

<http://math.rice.edu/%7Elanius/domath/shopping.html>

Math Facts

<http://www.iknowthat.com/com/L3?Area=Mathblox>

<http://www.aplusmath.com/Flashcards/multiplication.html>

<http://www.amblesideprimary.com/ambleweb/mentalmaths/testtest.html>

<http://www.funbrain.com/math/>

<http://www.oswego.org/ocsd-web/games/SumSense/summulti.html>

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

<http://home.indy.rr.com/lrobinson/mathfacts/mathfacts.html>

<http://www.berghuis.co.nz/abiator/tables/frame1.html>

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

<http://www.multiplication.com/flashgames/quickflash/flash/index.html>

<http://www.funbrain.com/tictactoe/index.html>

http://www.missmaggie.org/scholastic/roundtheworld_eng_launcher.html

Word Problems and Perimeter

<http://www.ixl.com/math/practice/grade-2-perimeter-word-problems>



Discover
Mathematics!

7th and 8th Grade Internet Math Resources

Division:

<http://www.aplusmath.com/games/matho/DivMatho.html>

<http://www.aplusmath.com/cgi-bin/games/divmatho>

<http://www.oswego.org/ocsd-web/games/Mathmagician/mathdiv.html>

<http://www.funbrain.com/math/>

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

<http://www.amblesideprimary.com/ableweb/mentalmaths/dividermachine.html>

Simplifying Fractions:

<http://visualfractions.com/RenameLowest.html>

Sums of the angles of a Triangle

<http://www.walter-fendt.de/m11e/anglesum.htm>

Coordinate Graphing:

<http://shodor.org/interactivate/activities/GeneralCoordinates/>

http://hotmath.com/hotmath_help/games/ctf/ctf_hotmath.swf

print own graphs:

http://theworksheetsite.com/coordinate_plane.html

Symmetry Tutorial Video

http://www.linkslearning.org/Kids/1_Math/2_Illustrated_Lessons/4_Line_Symmetry/index.html

Triangle Explorer:

http://shodor.org/interactivate/activities/TriangleExplorer/?version=1.5.0_16&browser=safari&vendor=Apple_Computer,_Inc.

Measuring Angles:

<http://www.amblesideprimary.com/ableweb/mentalmaths/protractor.html>

Number Patterns:

<http://www.funbrain.com/cracker/index.html>



Discover
Mathematics!

7th and 8th Grade Internet Math Resources

Area and Perimeter Video Lesson:

<http://new.learnalberta.ca/content/mesg/html/math6web/lessonLauncher.html?lesson=m6lessonshell12.swf>

Line Graphs:

<http://www.studyzone.org/testprep/math4/d/problemgraph4l.cfm>

Bar Graphs:

<http://www.studyzone.org/testprep/math4/d/bargraphs4l.cfm>

Mean-Medium-Mode:

<http://standards.nctm.org/document/eexamples/chap6/6.6/index.htm>

<http://www.beaconlearningcenter.com/WebLessons/BasketballDebate/default.htm>

<http://www.beaconlearningcenter.com/WebLessons/BicyclesAlaMode/default.htm>



Discover
Mathematics!

7th and 8th Grade Internet Math Resources

General Internet Sites

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

<http://www.mathplayground.com/index.html>

www.internet4classrooms.com

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

The National Library of Visual Manipulatives was created by Utah State University. The site has a Spanish version. Lessons are arranged in four sections: Pre-K - 2, 3-5, 6-8, 9-12. Within each one are four categories: Numbers & Operations, Algebra, Geometry & Measurement, Data Analysis & Probability.

<http://illuminations.nctm.org>

This National Council of Teachers of Mathematics website features 90 online activities and 524 lessons for preK-12 teachers. Lessons include objectives, materials, an instructional plan, assessments and reflection questions.

www.factmonster.com

Math section features a selection of math games from simple counting games to fairly complicated fractions games. Players choose their own level of difficulty. There's a math homework section that includes numbers and formulas, factors and fractions, measurement and money. There are also descriptions of the various branches of mathematics, a history of math, notable mathematicians and quizzes to test student skills.

www.funbrain.com

Site designed with bright, colorful cartoon figures. The math links connect to collections of games. There is a "find a game by grade level" link which allows you to tailor games to ability levels. (Many of the games on this site are the same as those on factmonster.com.)



Discover
Mathematics!

7th and 8th Grade Internet Math Resources

www.AAAMath.com

Includes 5,000 printable math worksheets and ideas and instructions for teaching math concepts. Lesson plans are also available.

http://www.deltacollege.edu/dept/basicmath/Multicultural_Math.htm

Multicultural math activities. For example, the ancient Egyptian way of multiplying.

www.kokogiak.com/megapenny

Visual representations of progressively bigger numbers, using a penny as a unit. If you click on '10 million pennies', the screen will show a cube of pennies that is six feet high, wide and long, next to an adult man for scale.

www.mathcats.com

click on 'crafts'. There are ideas here for art/math projects. Fun site. Everything here is cats. A door marked 'older cats' at the bottom of the page is for teachers & parents.

www.brainbashers.com

Collection of brain teasers, puzzles riddles, games, optical illusions. Updated regularly.

www.mathforamerica.org

worksheets, activities, games, links.

Middle School Internet Math Resources for Parents

3 digit x 2 digit /3 digit Multiplication Worksheets:

<http://www.dadsworksheets.com/v1/Worksheets/Multiplication.html#Multiple%20Digit>

Simplifying Fractions (Reducing Fractions) (Equivalent Fractions)(Improper-Mixed)

<http://www.dadsworksheets.com/v1/Worksheets/Reducing%20Fractions.html>

Rounding Numbers:

<http://www.dadsworksheets.com/v1/Worksheets/Rounding%20Numbers.html>

Place Value Worksheets:

<http://www.dadsworksheets.com/v1/Worksheets/Numbers%20in%20Standard,%20Expanded%20and%20Word%20Form.html>

Area and Perimeter of Rectangles Worksheets:

<http://www.dadsworksheets.com/v1/Worksheets/Basic%20Geometry.html>



Discover
Mathematics!

7th and 8th Grade Internet Math Resources

Quickly Recall Math Facts Worksheets:

<http://www.dadsworksheets.com/v1/Worksheets/Fact%20Family%20Math.html#One%20Minute%20Multiplication/Division>

Pre-Algebra Worksheets:

<http://www.dadsworksheets.com/v1/Worksheets/Pre-Algebra.html>

Adding Fractions:

<http://www.dadsworksheets.com/v1/Worksheets/Fraction%20Addition.html>

Subtracting Fractions:

<http://www.dadsworksheets.com/v1/Worksheets/Fraction%20Subtraction.html>

Multiplying Fractions:

<http://www.dadsworksheets.com/v1/Worksheets/Fraction%20Multiplication.html>

Dividing Fractions

<http://www.dadsworksheets.com/v1/Worksheets/Fraction%20Division.html>

Long Division:

<http://www.dadsworksheets.com/v1/Worksheets/Long%20Division.html>

Adding Decimals:

<http://www.dadsworksheets.com/v1/Worksheets/Addition.html#Addition%20with%20Decimals>

Subtracting Decimals:

<http://www.dadsworksheets.com/v1/Worksheets/Subtraction.html#Subtraction%20with%20Decimals>

Fractions-Decimals/Decimals-Fractions:

<http://www.dadsworksheets.com/v1/Worksheets/Fractions%20as%20Decimals.htm>

Order of Operations:

<http://www.dadsworksheets.com/v1/Worksheets/Order%20of%20Operations.html>

Percentages:

<http://www.dadsworksheets.com/v1/Worksheets/Percentages.html>

Adding/Subtracting Integers

<http://www.dadsworksheets.com/v1/Worksheets/Negative%20Numbers.html>

Angles: Right, Obtuse, Acute

<http://www.dadsworksheets.com/v1/Worksheets/Basic%20Geometry.html>

Lines: Parallel, Intersecting, Perpendicular:

<http://www.dadsworksheets.com/v1/Worksheets/Basic%20Geometry.html>

Data Analysis (Mean median mode)

<http://www.dadsworksheets.com/v1/Worksheets/Mean,%20Median,%20Range.htm>

Exponents:

<http://www.dadsworksheets.com/v1/Worksheets/Exponents.html>

DiscoverMathematics.org

Circles:

<http://www.dadsworksheets.com/v1/Worksheets/Basic%20Geometry.html#Circles%20-%20Diameter%20and%20Radius>