

PATHFINDER FOR MATH INTERNET RESOURCES

Mathematics is a science that requires many different approaches to teach method, formula, and thinking skills. Print sources, classroom lectures, and practice may work well for some students, but games of math logic, flashcards, and table design may work better for others. Learning theory has long stated that students perceive information in different ways, and teaching practices must address this. The following is a list Internet resources that offer math games, online homework help, formulas, tables, and interactive practice sheets which help to meet the needs of different learning styles.

BIOGRAPHIES

Biographies of Women Mathematicians

<http://www.agnesscott.edu/lriddle/women/women.htm>

Grade level: 4-12

This site can be searched by alphabetical order of name or by chronological order. This site is constantly being updated and is very useful for reports. Information on female mathematicians can be difficult to find in print form, so this is a valuable site.

MacTutor History of Mathematics Archive

<http://www-groups.dcs.st-and.aac.uk:80/~history/>

Grade level: 4-12

This site provides biographical information for over 1,000 mathematicians. There are also quotations, "mathematicians of the day", and a separate entry for female mathematicians. The site is easy to navigate by menu, alphabetical and chronological listings, and by keyword.

The Math Forum

<http://forum.swarthmore.edu>

Grade level: 4-12

This is a site listing approximately 20 African-American mathematicians. It is easy to navigate the listings that are in alphabetical order. Biographical information on this subject can be difficult to find so this is a valuable resource for students, teachers, and parents.

GAMES

Curious and Useful Math

<http://personal.cfw.com/~clayford>

Grade level: 5-12

This site offers math puzzles, games, and tricks to enhance the learning experience. Division, multiplication, and square roots are emphasized. There is also section for math trivia.

Funbrain.com

<http://www.funbrain.com>

Grade level: K-8

Funbrain has educational games designed for all learning of all ages. It is conveniently arranged by age group, and game name. There is a parent-kid challenge , and curriculum guide for teachers.

The Real Challenge

<http://www.getsmarter.org/index.cfm>

Grade level: K-12

This is described as an “animated and interactive testing and learning site”. The menu is arranged by grade level. Macromedia Flash 4 Player software is required to play.

Surfing the Net with Kids

<http://www.surfnet.kids.com/>

Grade level: K-8

This site includes math games and math jokes. Kids can submit jokes. It also includes learning aides such as flash cards.

HOMEWORK HELP SITES

A+ Math

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

Grade level: 1-5

Homework help is provided for addition, subtraction, multiplication, and division. Students can type in the problem on the screen, submit the answer, and click the check answer box. There are printable practice worksheets, flashcards, games, and puzzles.

Arithmetic

<http://www.aaamath.com>

Grade level: K-8

Students can practice math skills on this interactive site. It covers the many areas of math from addition to statistics. The site is easy to navigate by grade level or menu topic.

Ask Dr. Math!

<http://forum.swarthmore.edu/dr.math/dr-math.html>

Grade level: elementary- college and beyond.

This site is for students, teachers, and parents.

This site is easy to navigate by menu of subject, i.e. addition problems, word problems. It is also searchable key word. There are interactive projects to challenge the student. Also included are science fair project ideas.

Education 4 Kids

<http://www.edu4kids.com>

Grade level: K-12

This site emphasizes drills to build and reinforce math skills and knowledge. Examples are: Math Flashcards (K-8); Math Square Math Game (4-12); Math Table Drills (4-12); Time Experience Drill (2-6).

Study Web

<http://www.studyweb.com>

Grade level: K-8.

This site offers Homework Help Jr. for grades K-8. Students can submit questions online and receive assistance. There is also a “study buddy” site for tutoring. This is actually a structured pathfinder with numerous math-related sites.

Web Math

<http://school.discovery.com/homeworkhelp/webmath/>

Grade level: 5-8

Students can enter a problem and click for the explanation of how the problem can be solved. Included in this site are formulas, science fair projects, puzzles, and games.

Web Math Homework Help

<http://www.geocities.com/mathhomeorkhelp/eight.html>

Grade level: K-8

Students can e-mail their math questions to this site. Volunteers are available from 6-9 p.m. Students who are waiting for a reply can click on the links for Math Help, Algebra Help, Web Math, or Algebra Online.

World of Math Online

<http://math.com/>

Grade level: 4-12

This site offers formulas, tables, games and practice screens. Students can ask an expert a question online. The site is easy to navigate by structured menu and keyword.

