



The Math Forum @ Drexel

Free Online Resources

Grades K-2 and 3-5: <http://mathforum.org/pd/tour.html>
Grades 6-8 and 9-12: <http://mathforum.org/pd/tour2.html>

Ask Dr. Math®

If you, your students, or your students' parents have math questions, the math doctors can help! Wondering about π or why "m" represents slope? Need a formula to calculate interest payments, or the area of an ellipse? Get the scoop on these and dozens of other commonly requested topics by reading Dr. Math's Frequently Asked Questions. If you don't find help with your question there, check the more than 10,000 questions in our archives that have already been asked and answered. And you can always ask the math doctors your own question, too.

<http://mathforum.org/dr.math/>

Technology Problems of the Week (tPoWs)

Technology Problems of the Week (tPoWs) are **freely accessible** problem-solving challenges, modeled on our Problems of the Week, that take advantage of interactive mathematics tools such as Java applets, *TI-Nspire™*, *The Geometer's Sketchpad®*, *Fathom™*, or spreadsheets. Teachers can register for a free tPoW membership that gives a teacher the ability to create classes, create student logins, and use our online mentoring and feedback system.

<http://mathforum.org/tpow/>

KenKen

KenKen problems and teacher resources are free but they do require a registration. If you have already set up a tPoW free membership, you will automatically have access to KenKen and vice versa (regular PoW logins also work).

<http://mathforum.org/kenken/>

Math Tools

Math Tools is a community library built around interactive math tools that use technology such as Java, Flash, spreadsheets, dynamic geometry software, graphing calculators, and more! Users can search for the tools-related activities, and lesson plans, and also can save favorites, rate items, and read and participate in discussions linked to each resource.

<http://mathforum.org/mathtools/>

T2T® Teacher2Teacher

Want some help teaching math? Looking for fresh ways to engage your math students? The T2T Associates are all experienced math educators committed to helping everyone teach better. Jump in on the conversation and contribute your best practices.

<http://mathforum.org/t2t/>

Teacher Exchange

The Teacher Exchange includes web units, activities, and lessons written over the years by participants in some of our grant-funded institutes as well as lessons from the greater mathematics education community.

<http://mathforum.org/te/>

K-12 Math Problems, Puzzles, Tips & Tricks

This page offers links to the Beat the Calculator archived of over 600 mental calculation tricks from the BEATCALC mailing list. Pages of Multiplication Tips and Divisibility Rules are also linked as well as Russian Math Olympiad problems and a variety of math puzzles including our popular Year Game!

<http://mathforum.org/k12/mathtips/>

Internet Math Library	<p>This searchable and annotated library gives you quick and easy access to thousands of the best math and math education-related resources on the web.</p> <p>http://mathforum.org/library/</p>
Discussions	<p>The Math Forum's discussion archives include many mathematics and math education-related newsgroups, mailing lists, and Web-based discussions, including ap-calculus, ap-stat, math-learn, math-teach, geometry.software.dynamic, ncsm-members, and many more.</p> <p>http://mathforum.org/kb/</p>
Blogs	<p>A page that links to the blogs of Math Forum staff members, including <i>the Max Ray Blog</i>, <i>Financial Education in the Math Classroom</i>, <i>Suzanne at the Math Forum</i>, <i>Annie at the Math Forum</i>, and <i>Steve at the Math Forum</i>.</p> <p>http://mathforum.org/blogs/</p>
Math Forum Internet News	<p>Our electronic newsletter is sent out via e-mail once a week to those who subscribe and is archived on our site. Subscribers have the choice of receiving an HTML version or a text-only version.</p> <p>http://mathforum.org/electronic.newsletter/</p>
Financial Education	<p>The Math Forum was awarded a generous grant from the FINRA Investor Education Foundation to support the work of connecting math teachers to useful resources and to each other so that they can include financial content in their math classrooms. This website is the result of prior and ongoing conversations with teachers, financial educators, and Math Forum staff.</p> <p>http://mathforum.org/fe/</p>
Online Orientation Sessions	<p>The self-paced sessions include pages to help you learn about the different features of (1) Problems of the Week, (2) Technology Problems of the Week, or (3) Math Tools. You may choose to spend an hour a day or a few hours over the weekend reading the information. It really is up to you how much time you spend. There are no requirements.</p> <p>http://mathforum.org/pd/#orientation</p>
Community Facilitated Workshops	<p>Our online workshops are community-facilitated. A Math Forum facilitator monitors the workshop to respond to technical questions and support the community, but does not "instruct" the course in a traditional sense. We rely on a critical mass of participation from those who have registered so that there are active discussions resulting in a successful workshop experience for everyone.</p> <p>Using Technology and Problem Solving to Build Algebraic Reasoning Teachers will explore how technology can help students build algebraic reasoning as they model and solve contextualized problems using a variety of representations, including graphs, tables, equations, and words.</p> <p>Technology Tools for Thinking and Reasoning about Probability Teachers will investigate mathematics topics common to middle school curricula within the theme of probability. In this context we will explore the Math Tools digital library and several software tools that contribute in some way to mathematical understanding, problem solving, reflection and discussion.</p> <p>http://mathforum.org/pd/#workshops</p>
Grant-funded Online Course	<p>The course, <i>Incorporating Financial Education into the Math Classroom</i>, consists of three two-week modules that explore ways to incorporate financial education into the math classroom with a strong focus on the Math Forum's resources and problem-solving expertise. Participants engage with problem solving and software/technology tools as they explore financial education content and teaching strategies. The activities and resources are for grades 6 - 12. Participation is at no cost to participants and is made possible by a generous grant from the FINRA Investor Education Foundation.</p> <p>http://mathforum.org/fe/courses/</p>