



About The Math Forum

The Math Forum's mission is to provide interactive learning services and a library of resources from the online mathematics community that enrich and support teaching and learning in an increasingly technological world.

Problem-Solving and Professional Development

At the Math Forum, students in grades 3–12 access non-routine math challenges online, submit their solutions and explanations, then receive feedback from the Math Forum which encourages them to reflect on their work and revise it. Teachers work online with math specialists from the Math Forum to build their own math content knowledge, analyze and scaffold student problem solving, and design instructional strategies. Constructed-response problems and the results of over 200,000 mentored solutions can give teachers unique insight into students' mathematical understanding. Rubrics provide structure for driving instruction and assessing student problem-solving and communication skills. Research of students who regularly participate in our PoWs shows that, regardless of a student's initial competence, they make more connections to math, generate more effective strategies for solving problems, and work more independently on them.

Problems of the Week: mathforum.org/pow/

Membership options include class, school, and district programs that make use of new bi-weekly problems in four areas (Math Fundamentals, Pre-Algebra, Algebra, and Geometry) and a library of more than 800 standards-based, non-routine math problems. Teacher accounts allow teachers to manage student participation and support resources include links to problem-solving and mathematical communication implementation guides, background materials and lesson plans, and assessment rubrics. Memberships to the Current Problems of the Week are also available.

Community Expertise in Math and Teaching

The Forum's volunteer 'math doctors' and our archive of answers will help you with your math questions—see Ask Dr. Math. Questions about teaching and math education may be sent to our Teacher2Teacher service. Dr. Math can travel with you in the form of four books published by J. Wiley, covering middle school pre-algebra

and geometry and as well as Algebra I and high school geometry.

Ask Dr. Math: mathforum.org/dr.math/
Teacher2Teacher (T2T): mathforum.org/t2t/

Time-Saving Collections of the Best Resources

The Forum's Internet Mathematics Library covers math and math education Web sites in depth. For teacher and student members, the Active Problem Library offers a convenient interface for searching and browsing the extensive collection of past problems from the Problem of the Week services.

Internet Mathematics Library: mathforum.org/library/
Active Problem Library: mathforum.org/library/problems/

Encouraging Communication Throughout the Mathematical Community

Conversation and writing play critical roles in learning and thinking. Through our growing collection of mailing lists, Web-based discussion areas, and ask-an-expert services, we give you places to talk, to reach others with similar interests, and to find answers to your questions.

Discussions: mathforum.org/kb/
Math Tools Discussions: mathforum.org/mathtools/discuss.html
T2T Teachers' Lounge: mathforum.org/t2t/discuss/

Growing with the Web

Our newsletters notify you about new sites of interest, feature the latest and best, and alert you to focused, timely discussions of math education.

Internet News: mathforum.org/electronic.newsletter/
Math Tools News: mathforum.org/mathtools/newsletter/

Developing a Community Digital Library of Software for Math Learning

Math Tools is a community library of technology tools, lessons, activities, and support materials for teaching and learning mathematics. You can submit tools and related stories, activities, lessons and share opinions in

PEOPLE LEARNING MATH TOGETHER

The Math Forum is a research and educational enterprise of the Drexel University School of Education.

the discussion area. A new online workshop program supports teachers as they use these tools in their teaching.

Math Tools: mathforum.org/mathtools/

Online Teacher Workshops: mathforum.org/nsdl_mathtech/

Providing High-Quality Math and Math Education Content

We have worked with teachers, students, and researchers to help them publish the best of their materials on the Web and develop online interest groups. If you or someone you know has material to contribute, please check out the Forum's Teacher Exchange.

Teacher Exchange: mathforum.org/te/

Suzanne's Mathematics Lessons: mathforum.org/alejandre/

Varnelle's Primary Math Activities: mathforum.org/varnelle/

Future Projects

- Online teacher education courses involving mentoring and reflection on students' mathematical thinking
- Customized learning communities and resources for local curriculum schedules and professional development
- Research on using digital libraries such as the Math Forum for education—what works? how? what doesn't? why?
- And what would **you** like us to do, perhaps together?

The Math Forum @ Drexel

3210 Cherry Street

Philadelphia PA 19104

800-756-7823

mathforum.org

Math Forum Staff

Stephen Weimar — steve@mathforum.org
Director of The Math Forum

Bruce Levine — bruce@mathforum.org
Business Director

Cynthia Lanus — cynthia@mathforum.org
Associate Director

Gene Klotz — klotz@mathforum.org
Founder & Research Advisor

Lee Smith — lee@mathforum.org
Director of IT

Suzanne Alejandre — suzanne@mathforum.org
Educational Resource & Service Developer

Erhan Berber — berber@mathforum.org
Software Engineer

Annie Fetter — annie@mathforum.org
Problem of the Week Administrator

Cris Lawrence — cris@mathforum.org
Software Engineer

Claire Mead — claire@mathforum.org
Project Manager

Tracey Perzan — tracey@mathforum.org
Administrative Assistant

Steve Risberg — riz@mathforum.org
Internet Education Specialist

Melissa Running — mrunning@mathforum.org
Resource Librarian

Jay Scott — jay@mathforum.org
Software Engineer

Amir Tahvildaran — amir@mathforum.org
Software Engineer

Richard Tchen — richard@mathforum.org
Project Manager; User and Community Support

Ian Underwood — ian@mathforum.org
Ask Dr. Math Project Manager

Jessica Zhu — jessica@mathforum.org
System and Database Administrator

Math Forum Research and Evaluation

Ann Renninger — krennin1@swarthmore.edu
Educational Studies, Swarthmore College

Wes Shumar — shumarw@drexel.edu
Culture and Communication

Current Research Projects

NSDL Teacher Workshops

Gene Klotz — klotz@mathforum.org
Mathematics, Swarthmore College

Virtual Math Teams

Gerry Stahl — gerry.stahl@cis.drexel.edu
Information Science and Technology

Johann Sarmiento — jsarmi@mathforum.org
Alan Zemel — azemel@mathforum.org

WebMath Communication

Werner Krandick — krandick@cs.drexel.edu
Computer Science

Transition to Teaching

Fredricka Reisman — reismafk@drexel.edu
Goodwin College of Professional Studies

April 2006

PEOPLE LEARNING MATH TOGETHER

The Math Forum is a research and educational enterprise of the Drexel University School of Education.