

ED433190 1998-10-00 Information Sources for Mathematics Education. ERIC Digest.

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Table of Contents

If you're viewing this document online, you can click any of the topics below to link directly to that section.

Information Sources for Mathematics Education. ERIC Digest.....	1
ORGANIZATIONS.....	2
INFORMATION CENTERS.....	3
TERC.....	5
PUBLICATIONS.....	6
JOURNALS.....	6
MATHEMATICS EDUCATION RESOURCES ON THE INTERNET... 	9



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In this information age of instant access to libraries, databases, information centers, organizations, government agencies, and self-appointed experts worldwide, where do you turn for accurate, reliable, and up-to-date information about mathematics education? There are many competing voices hoping to influence the practices and policies of teachers, schools, parents, and administrators, so it seems important to have confidence in one's sources of information. Listed here are some of the key information sources used by parents, researchers, and other professionals. There are many more local, regional, national, and international resources not listed here, but these are reliable starting points in your quest for information.

ORGANIZATIONS

National Council of Teachers of Mathematics (NCTM)

As the primary professional organization for teachers of mathematics in grades K-12, the NCTM provides broad national leadership in issues related to learning and teaching of mathematics at all levels. Professional development opportunities are provided through regional and national conferences, and through publishing journals, books, videos, and software.



NCTM, 1906 Association Drive, Reston, VA 20191-1593



Phone: (703) 620-9840



Fax: (703) 476-2970



Fax on Demand: (800) 220-8483



E-mail: InfoCentral@nctm.org,



webmaster@nctm.org



URL: <http://www.nctm.org/>

INFORMATION CENTERS

ERIC Clearinghouse for Science, Mathematics, and Environmental Education
(ERIC/CSMEE)

The Clearinghouse is one of 16 in the ERIC system-a service of the U.S. Department of Education-and its purpose is to facilitate ongoing improvement in education in all areas at all levels through providing access to resources in science, mathematics, and environmental education.



ERIC/CSMEE, 1929 Kenny Road, Columbus, OH 43210-1080



Toll-Free: (800) 276-0462



Phone: (614) 292-6717



Fax: (614) 292-0263



E-mail: ericse@osu.edu



URL: <http://www.ericse.org>

The Eisenhower National Clearinghouse for Mathematics and Science Education (ENC)

Funded by the U.S. Department of Education, ENC provides K-12 teachers with a central source of information about mathematics and science curriculum materials. ENC maintains a national repository of mathematics and science curriculum resources that is available to educators, students, parents, and others.



ENC, 1929 Kenny Road, Columbus, OH 43210-1079



Toll-Free: (800) 621-5785



Phone: (614) 292-7784



Fax: (614) 292-2066



E-mail: info@enc.org



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

Mathematical Sciences Education Board Center for Science, Mathematics, and Engineering Education

The Mathematical Sciences Education Board (MSEB) provides national leadership and guidance for policies, programs, and practices supporting the improvement of mathematics education at all levels and for all members of the society through publishing.



National Research Council,



2101 Constitution Avenue, NW (HA 450),



Washington, DC 20418



Phone: (202) 334-3294



Fax: (202) 334-1453



E-mail: mseb@nas.edu



URL: <http://www4.nas.edu/csmee/mseb.nsf>

TERC

TERC is a nonprofit research and development organization committed to improving mathematics and science learning and teaching. TERC is internationally recognized for creating innovative curricula, fostering teacher professional development, pioneering creative uses of technology in education, contributing to educators' understanding of learning and teaching, and developing equitable opportunities for underserved learners.



TERC



2067 Massachusetts Avenue,



Cambridge, MA 02140



Phone: (617) 547-0430



Fax: (617) 349-3535



E-mail: info@terc.edu



URL: <http://www.terc.edu/>

PUBLICATIONS

NCTM's three Standards documents laid the foundation for the current reform efforts in mathematics education: (1) "The Curriculum and Evaluation Standards for School Mathematics" (1989) presents recommendations for improving and updating the mathematics curriculum and the evaluation of students' achievement.

<http://www.enc.org/reform/journals/ENC2280/280dtoc1.htm> (2) "The Professional Standards for Teaching Mathematics" (1991) offers specific suggestions for how mathematics teachers can create successful learning environments for every student and promote their own professional growth. (3) "The Assessment Standards for School Mathematics" (1995) describes ways to have a comprehensive mathematics assessment program and provides criteria for judging the quality of mathematics assessment.

The National Council of Teachers of Mathematics has released a draft of updated Standards, entitled "Principles and Standards for School Mathematics" at <http://www.nctm.org/standards2000/>. You can download the draft from the web.

JOURNALS

"Educational Studies in Mathematics"

This journal presents new ideas and developments of major importance to those working in the field of mathematical education. It reflects both the variety of research concerns within this discipline as well as the range of methods used to didactical, methodological and pedagogical subjects, rather than with specific programs for teaching mathematics.



<http://www.wkap.nl/journalhome.htm/0013-1954>

"Focus on Learning Problems in Mathematics"

FOCUS is an interdisciplinary journal, edited jointly by the Research Council for Diagnostic and Prescriptive Mathematics (RCDPM) and the Center for Teaching/Learning of Mathematics (CT/LM). The objective of FOCUS is to make available the current research, methods of identification, diagnosis, and remediation of learning problems in mathematics.



<http://www.wcnet.org/~rcdpm/focus.html>

"For the Learning of Mathematics"

This journal aims to stimulate reflection on mathematics education at all levels, and promote study of its practices and theories: to generate productive discussion; to encourage inquiry and research; to promote criticism and evaluation of ideas and procedures current in the field.

"Journal for Research in Mathematics Education"

An official journal of NCTM, JRME is devoted to the interests of teachers of mathematics and mathematics education at all levels. It publishes reports of research, including experiments, case studies, surveys, and philosophical studies; articles about research, including literature reviews and theoretical analyses; brief reports of research; critiques of articles and books; and brief commentaries on issues pertaining to research.



<http://www.nctm.org/jrme/>

"Journal of Computers in Mathematics & Science Teaching"

JCMST offers an in-depth forum for the interchange of information in the fields of science, mathematics, and computer science. JCMST is the only periodical devoted specifically to using information technology in the teaching of mathematics and science.



<http://www.aace.org/pubs/jcmst/Default.htm>

"Journal of Mathematical Behavior"

This journal focuses on interventions that improve the teaching and learning of mathematics and to help develop a deeper understanding of how people learn and use mathematics.

"Mathematical Cognition"

The journal provides a forum for research on mathematical cognition from diverse fields of study, including advances in the study of mental representation and the uses of mathematical concepts, and their development in children.

"Mathematics and Computer Education"

This is an independent, refereed journal, internationally indexed and abstracted, and devoted to critical evaluation and dissemination of articles; development of materials for

the improvement of classroom effectiveness in the first years of college, and encouragement of high academic standards.



<http://www.nsiweb.com/mcejournal/default.html>

"Mathematics Educational Research Journal"

This is the official journal of the Mathematics Education Research Group of Australasia, Inc. It is an international, refereed journal which provides a forum for the publication of research on the teaching and learning of mathematics at all levels.

"Mathematics in School"

"Mathematics in School" is published five times a year by the Mathematical Association. A variety of articles on teaching and learning mathematics are published, including activities, opinion articles, and lesson plans.

"Mathematics Teacher"

An NCTM journal devoted to improving mathematics instruction in grade 8 through two-year and teacher- education colleges.



<http://www.nctm.org/mt/mt.htm>

"Mathematics Teaching in the Middle School"

An NCTM journal intended as a resource for middle school students, teachers, and teacher educators. The focus of the journal is on intuitive, exploratory investigations that use informal reasoning to help students develop a strong conceptual basis that leads to greater mathematical abstraction.



<http://www.nctm.org/mtms/mtms.htm>

"School Science and Mathematics"

This is the official international journal of the School Science and Mathematics Association. The journal focuses on issues, concerns, and lessons within and between the disciplines of science and mathematics in the classroom.



<http://osu.orst.edu/pubs/ssm/>

"Teaching Children Mathematics"

This is an NCTM journal that provides a forum for the exchange of ideas and a source of activities and pedagogical strategies for mathematics education pre-K-6. It presents new developments in curriculum, instruction, learning, and teacher education; interprets the results of research; and in general provides information on any aspect of the broad spectrum of mathematics education appropriate for preservice and in-service teachers.



<http://www.nctm.org/tcm/tcm.htm>

"Teaching Mathematics and Its Applications"

This journal provides mathematics teachers in secondary and tertiary education with interesting and stimulating instructional materials.

MATHEMATICS EDUCATION RESOURCES ON THE INTERNET

Math Forum Internet Resource Collection
<http://forum.swarthmore.edu/~steve/index.html>

EXTENT Resources for Mathematics Education



<http://www.stolaf.edu/stolaf/other/extend/Resources/resources.html>

Mathematics Education Resources



http://www.pitt.edu/~sosmos/mathematics_resources/

MathEd: Mathematics Education Resources



<http://www-hpcc.astro.washington.edu/scied/math.html>

Education World: Math



http://db.education-world.com/perl/browse?cat_id=1515

Librarian's Guide to the Internet: Mathematics Topics



<http://sunsite.berkeley.edu/InternetIndex/3/math.html>

Yahoo!: Mathematics



<http://dir.yahoo.com/Science/Mathematics/> This digest was funded by the Office of Educational Research and Improvement, U.S. Department of Education under contract no. RI-93002013. Opinions expressed in this Digest do not necessarily reflect the positions or policies of OERI, or the Department of Education. This Digest is in the public domain and may be freely reproduced.

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