MATHEMATICS EDUCATION

This is a selected guide to resources held in the Coleman Library to support mathematics education. To locate any of the listed materials, consult the online catalog or ask the librarian.

CLASSIFICATION OF MATERIAL

Library of Congress classification for mathematics education is QA.

- QA11-14 Study and Teaching, Research
- QA16-20 Special Teaching Methods and Aids

SELECTED RESOURCES

DICTIONARIES AND ENCYCLOPEDIAS


Darling, David J. The Universal Book of Mathematics: From Abracadabra to Zeno’s Paradoxes. [NetLibrary]

Helicon Publishing. The Hutchinson Pocket Dictionary of Maths. [NetLibrary]


HANDBOOKS

Bolijanovic, Vukota. Applied Mathematical and Physical Formulas: A Pocket Reference
for Students, Mechanical Engineers, Manufacturing Engineers, Maintenance Technicians, Toolmakers, and Machinists. [Coleman QA41.B58 2007]


Bronshein, N. Handbook of Mathematics. [Coleman QA40.S6813 2003]


Hicks, David S., and Tyler Gregory Hicks. Standard Handbook of Engineering Calculations. [Coleman TA332.S73 2005]


Mason, John, and Sue Johnson-Wilder. Fundamental Constructs in Mathematics Education. [NetLibrary]


Spellman, Frank R. Environmental Engineer’s Mathematics Handbook. [Coleman TD145.S676 2005]


Databases

**Academic OneFile**
Academic OneFile is the premier source for peer-reviewed, full-text articles from the world's leading journals and reference sources. With extensive coverage of the physical sciences, technology, medicine, social sciences, the arts, theology, literature and other subjects, Academic OneFile is both authoritative and comprehensive.

**Encyclopedia Britannica Online**
Consists of a fully searchable and browse collection of authoritative references, including Britannica's latest article database, hundreds of articles not found in the print Britannica, Merriam-Webster's Collegiate Dictionary (Tenth Edition).

**Education Full Text**

**Education Journals**
Indexes and abstracts 550 standard and professional education journals, 300 in fulltext. Coverage is from 1986-present.

**Infotrac**

**Infotrac OneFile**
Search humanities, education, business, science, current events, art, politics, economics, social science, law, health care, computers, technology, environmental issues, and general interest topics.

**JSTOR**
Full text of 100 plus core research journals in many subject areas.

**Klewer Journals Online**
Full text of 600 plus of Kluwer's research journals (most since 1997) covering a wide range of scientific disciplines, including mathematics, information science, economics, and business.
Net Library
Electronic books.

OmniFile Full Text

Ovid
The database is an aggregate of hundreds of scientific, technical, and medical journals from over 50 publishers and societies.

Proquest Education Journals
Contains more than 550 titles on education including primary, secondary, and university-level topics with nearly 300 in full text.

Reader’s Guide Full Text

Resources in Education
ERIC (Educational Resources Information Center) provides published and unpublished sources on thousands of educational topics, with information from RIE (Resources in Education) and CIJE (Current Index to Journals in Education).

Webster's Online Dictionary and Thesaurus
Merriam-Webster's Collegiate Dictionary and Collegiate Thesaurus.

GOVERNMENT DOCUMENTS


Adler, Jill. **Teaching Electronics in Multilingual Classrooms.** [NetLibrary]


Ameis, Jerry A. **Mathematics on the Internet: A Resource for K-12 Teachers.** [Coleman QA 11.5.A64 2002]

An, Shuhua. **The Middle Path in Math Instruction: Solutions for Improving Math Education.** [NetLibrary]

Brown, Tony. **Mathematics Education and Language: Interpreting Hermeneutics and Post-Structuralism.** [NetLibrary]


Eisenhower National Clearinghouse for Mathematics and Education. **ENC Focus.** [NetLibrary]

Fitzsimmons, Gail E. **What Counts as Mathematics?: Technologies of Power in Adult and Vocational Education.** [Coleman QA11.2.F58 2002]

Freudenthal, Hans. **Weeding and Sowing: Preface to a Science of Mathematical Education.** [NetLibrary]

Guerraggio, Angelo. **Italian Mathematics Between the Two World Wars.** [Coleman QA13.5.I8 G84 2005]

Kay, Julie. **Dyslexia and Math.** [Coleman LC4708 K.39 2003]


Long, Lynette. **Dazzling Decimals and Perfect Percents that Make Math Easy and Fun.** [NetLibrary]

Moses, Robert Parris. **Radical Equations: Math Literacy and Civil Rights.** [NetLibrary]

National Research Council. Learning and Instruction: A SERP Research Agenda. [NetLibrary]

Steinbring, Heinz. The Construction of New Mathematical Knowledge in Classroom Interaction: An Epistemological Perspective. [Coleman QA11.2.S84 2005]

PRINT AND ELECTRONIC JOURNALS

Annales Academiae Scientiarum Fennicae
from 2004 to present in Directory of Open Access Journals

Bulletin of Mathematical Biology
from 01/01/1997 to present in SpringerLink Contemporary

Comptes rendus de L’académie of Sciences
from 1998 to present in Science Direct Journals

Doklady. Mathematics
from 01/09/2006 to present in SpringerLink Contemporary

Journal of Mathematical Analysis and Applications
from 1995 to Present in ScienceDirect Journals

Journal of Mathematical Biology
from 01/01/1997 to SpringerLink Contemporary

Journal of Physics, A Mathematical and General
from 1975 to 1996 in Institute of Physics Archives
from 10 years ago to 12/31/2006 in Institute of Physics Archives

Journal of Physics, A Mathematical and Theoretical
From 01/01/1997 to present in Institute of Physics

Mathematical and Computer Modeling
from 1995 to present in ScienceDirect Journals

Mathematical Biosciences
from 1995 to present in ScienceDirect Journals

Mathematical Geology
from 1997 to present in Klewer Journals Online

Mathematical Intelligencer
from 01/01/2005 to 1 year ago in General Science Full Text and Wilson OmniFile
Mathematical Journal of Okayama University
from 2004 to present in Directory of Open Access Journals

Mathematical Logic Quarterly
from 2000 to present in Wiley InterScience Journals

Mathematical Medicine and Biology
from 1996 to present in Oxford Journals Online
from 03/01/2001 to 6 months ago in ProQuest Science Journals

Mathematical Methods in Biomedical Image Analysis
from 1996 to 2006 in IEEE Electronic Library Online

Mathematical Methods in the Applied Sciences
from 1996 to present in Wiley InterScience Journals

Mathematical Methods of Operations Research
from 01/01/1997 to present in SpringerLink Contemporary
from 03/01/2002 to 1 year ago in ABI/INFORM Global

Mathematical Notes
from 01/01/1997 to present in SpringerLink Contemporary
from 2000 to present in Kluwer Journals Online

Mathematical Physics, Analysis, and Geometry
from 1997 to present in Kluwer Journals Online
from 03/01/1998 to 08/23/2006 in SpringerLink Contemporary

Mathematical Problems in Engineering
from 1995 to present in Directory of Open Access Journals

Mathematical Proceedings of the Cambridge Philosophical Society
from 01/01/1997 to present in Cambridge Journals Online

Mathematical Programming
from 01/01/1997 to present in SpringerLink Contemporary
from 01/01/2002 to 1 year ago in ABI/INFORM

Mathematical Social Sciences
from 1995 to present in ScienceDirect Journals

Mathematical Structures in Computer Science
from 1997 to present in Cambridge Journals Online
Mathematical Tables and other aids to computation
from 01/01/1943 to 10/31/1959 in JSTOR Arts and Sciences I Collection

Mathematics and Computer Education
from 09/01/1997 to present in Education Full Text
from 04/01/1999 to present in ProQuest Education Journals

Mathematics and Computers in Simulation
from 1995 to present in ScienceDirect Journals

Mathematics and Mechanics of Solids
from 02/01/2005 to present in Expanded Academic ASAP

Mathematics Educator
from 1990 to present Directory of Open Access Journals

Mathematics Magazine
from 09/01/1947 to 12/31/2003 in JSTOR Arts and Sciences II Collection
from 04/01/1997 to present in ProQuest Research Library

Mathematics News Letter
from 1926 to 05/31/1934 in JSTOR Arts and Sciences II Collection

Mathematics of Control, Signals and Systems
from 02/01/1999 to present in SpringerLink Contemporary

Mathematics of Operations Research
from 02/01/1999 to 1 year ago in ABI/INFORM GLOBAL

Mathematics in School
from 09/01/1998 to present in Education Full Text

Mathematics Teacher
from 01/01/1992 to 10/01/2003 in ProQuest 5000

Mathematics Teaching
from 09/01/2001 to present in Education Full Text

Mathematics Teaching the Middle School
from 09/01/92 to 11/01/2001 in Education Full Text

Mathematische Annalen
from 01/01/1997 to present in SpringerLink Contemporary

Mathematische Nachrichten
from 2000 to present in Wiley InterScience Journals
Mathematische Semesterberichte
from 01/01/1997 to present in SpringerLink Contemporary

Mathematische Zeitschrift
from 01/01/1997 to present in SpringerLink Contemporary

Mediterranean Journal of Mathematics
from 03/01/2004 to present in SpringerLink Contemporary

Montana Math Enthusiast
from 2004 to present in Directory of Open Access Journals

MPEI
from 1995 to present in Directory of Open Access Journals
from 11/08/2005 to present in Academic OneFile

Philosophical Transactions of the Royal Society of London. Mathematical and Physical Sciences
from 11/01/1934 to 06/30/1990 in JSTOR General Health and Science Collection

Philosophical Transactions of the Royal Society of London. Series A: Mathematical, Physical and Engineering Sciences
from 01/15/1996 to 12/15/2003 in JSTOR Health and General Science Collection

Proceedings of the Indian Academy of Sciences. Mathematical Sciences
from 1980 to present in Directory of Open Access Journals

Proceedings of the Royal Society. A, Mathematical, Physical, and Engineering Sciences
from 01/08/1996 to 12/08/2003 in JSTOR Health and General Science Collection

Proceedings of the Royal Society of London. Series A, Mathematical and General
from 11/01/1934 to 06/08/1990 in JSTOR General Health and Science Collection

Resultate Der Mathematik
from 11/23/2006 to present in Directory of Open Access Journals

Scholastic Math Magazine
from 02/16/1998 to present in ProQuest 5000
ONLINE RESOURCES

Association for Women in Mathematics
http://www.awm-math.org/

American Math Society
http://www.ams.org/

British Society for the History of Mathematics
http://www.dcs.warwick.ac.uk/bshm/resources.html

Electronic Transactions on Numerical Analysis
http://etna.mcs.kent.edu/

Extend: Resources for Mathematics Education
http://www.stolaf.edu/other/extend/Resources/resources.html

GAMS: Guide to Available Mathematical Software
http://gams.nist.gov/

Institute for Mathematics and its Applications
http://www.ima.umn.edu/

Mathematics Archives – Collegiate Teaching Sites
http://archives.math.utk.edu/materials.html

Mathematics Teacher Education Resource Place
http://www.sjsu.edu/depts/mathed/links.html

MathSciNet Full Search
http://www.ams.org/mathscinet/search.html

PLATO Learning
http://www.plato.com/

PSU Math
http://www.math.psu.edu/MathLists/Subject.html

Realistic Mathematics Education, Literature Review
http://www.geocities.com/ratuilma/rme.html#anchor64854

Sites Offering Academic and Skill Standards

Society for Industrial and Applied Mathematics
http://www.siam.org/
Student Resources
http://www.nku.edu/~mathed/p12sr.html

Women in Mathematics
http://www.math.umd.edu/~wim/

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