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Subject Bibliography for Mathematics

Let's do the math. It all adds up. It has been stated that "Mathematics is one of the essential emanations of the human spirit—a thing to be valued in and for itself, like art or poetry." This subject bibliography is designed primarily for the mathematics educator, in particular, professors and students in this field of study. Databases, general and reference sources located in the James Pendergrast Memorial Library generally in the QA section, and reputable Internet sites covering mathematics education are listed for your convenience.

-Oswald Veblen 1924

Dictionaries

Biographical dictionary of scientist. <Mathematicians>
Reference collection QA28 B54

Dictionary of classical and theoretical mathematics
Reference collection QA5. D4984

Dictionary of named effects and laws in chemistry
Reference collection Q123 .B3

Dictionary of scientific biography
Reference collection Q141 .D5

McGraw-Hill dictionary of physics and mathematics
Reference collection QC5. M23

Encyclopedias

Encyclopedia of mathematics education
Reference QA11 .E665

Encyclopedia of mathematics
Reference collection QA5 .T34

Encyclopedia of statistical sciences
Reference collection QA276 .14 E5

International encyclopedia of statistics
Reference collection HA17 I63

McGraw-Hill encyclopedia of science & technology
Reference Q121 .M3

VNR concise encyclopedia of mathematics
Reference collection QA40 V18

Handbooks

501 Math word problems
Reference QA43 .A114

501 quantitative comparison questions
Reference QA43 .A116

Women in science
Reference collection Q141 .W6795

World of mathematics
Reference collection QA5 .W67

Mathematical handbook for scientists and engineers
Reference Collection QA40 K598

NetLibrary Electronic Books

(log onto asuweb.asurams.edu/ASU/administration/departments/library)

Ace your midterms & finals. Fundamentals of mathematics (Alan Axelrod)

Algebra success in 20 minutes a day .(Barbara Jund)

Becoming a reflective mathematics teacher : a guide for observations and self-assessment. Alice F. Artzt

Beyond formulas in mathematics and teaching [computer file] : dynamics of the high school algebra classroom (Daniel Chazan)

Biographical encyclopedia of scientists (John Daintith)

Foundations of algorithms : using C++ pseudocode. (Richard E. Neapolitan)

How to solve word problems in algebra : a solved problem approach. (Mildred Johnson)

Integrating research on teaching and learning mathematics. (Elizabeth Fennema)

Learning mathematics : from hierarchies to networks (Leone Burton)

Logic and algebra. (Aldo Ursini)

Mathematically speaking (Carl Gaither)

The number sense : how the mind creates mathematics (Stanislas Dehaene)

100% mathematical proof (Rowan Garnier)

1001 math problems (Learning Express)

Practical methods for design and analysis of complex surveys (Risto Lehenon)

Precalculus [electronic resource] : a self-teaching guide . (Steve Slavin)

Schaum's easy outlines. Calculus : based on Schaum's Outline of differential and integral calculus (Frank Ayres, Jr.)

Teach your child math : making math fun for the both of you . (Arthur Benjamin)

Teaching secondary mathematics. Douglas K. Brumbaugh

Teaching mathematics in multilingual classrooms.

(Jill Adler)

Electronic Databases

(log onto www.galileo.usg.edu to access databases)

Academic Search Premier (ASP) 1975—This scholarly Collection offers information in nearly every area of academic study including Medical sciences, computer sciences, engineering, physics, chemistry, language and linguistics, arts & literature, ethnic studies, and many more. ASP provides full text for nearly 4,650 serials, including full text for more than 3600 peer reviewed titles as far back as 1975.

Books in print —Publishers, reviews and ordering information for books currently available from hundreds of publishers worldwide.

Dissertation Abstracts—Search for dissertations from hundred of US and some foreign universities.

ERIC (at Ebscohost) Educational Resources Information Center—Journal articles and reports in education, including education in mathematics.

Google Scholar—Google Scholar enables you to search specifically for scholarly literature, including peer-reviewed papers, theses, books, preprints, abstracts and technical reports from all broad areas of research. Use Google Scholar to find articles from a wide variety of academic publishers, professional societies, preprint repositories and universities, as well as scholarly articles available across the web.

JSTOR—Full text backfile volumes of scholarly journals in Mathematics and other disciplines.

Research Library 1986—Subject categories in this database include Law and Criminology, Medicine, Medicine and Health Sciences, Biology, Books and Book Reviews, Chemistry and Physics, General and Multi-Subject, News, Nursing and Allied Health, Sociology, Social Sciences, and many others.

Science & Technology Collection—contains over 800 full-text journals covering relevant aspects of the scientific and technical community. Topics include aeronautics, astrophysics, biology, chemistry, computer technology, geology, aviation, physics, archaeology, marine sciences and materials science. In addition to the full text, this database offers indexing and abstracts for more than 1,700 publications.

WorldCat—37 million bibliographic records to books, journals, dissertations, videos, etc. owned by libraries all over the US and in other countries.

Books (General Collection)

The absolute differential calculus : (calculus of tensors). Tullio Levi-Civita
General collection QA433 .L4 2005

Basic college mathematics (instructor's annotated ed.) : an applied approach. Richard N. Aufmann
General collection QA39.2 .A885 2003 7th ed.

Improving the learning of mathematics / John Backhouse
General collection QA11 .I436 1992

Mathematics assessment : what works in the classroom. Gerald Kulm.
General collection QA11 .K86 1994

Mathematics for elementary school teachers. Tom Bassarear.

General collection QA135.5 .B2865 2001

Mathematics success and failure among African-American youth : the roles of sociohistorical context, community forces, school influence, and individual agency. Danny Bernard Martin

General collection QA13 .M145 2000

1089 and all that a journey in mathematics. David Acheson

General collection QA93 .A287 2002

1001 math problems 2nd ed.

General collection QA43 .A12 2004

101 careers in mathematics. Andrew Sterrett

General collection QA10.5 .A15 2002

Principles and standards for school mathematics. National Council of Teachers of Mathematics

General collection QA13 .P735 2000

2xy Algebra Helper [interactive multimedia].

General collection QA15 .A15 2000

Trigonometry. P. Abbott and M.E. Wardle

General collection QA533 .T23 1992

Using assessment to reshape mathematics teaching : a casebook for teachers and teacher educators, curriculum and staff development specialists. Sandra K. Wilcox

General collection QA13 .U78 2000

Media Collection

Calculus / Video Tutorial Service and The Prudential Insurance Company of America.

QA303 .C34 1990

Mathematical investigations : a series of 10-minute programmes / a BBC production : David Roseveare.

QA 139 .M55 1989

Real life math. Word problems volume II /Ron Spalding ; writer, Meryle H. Kohn.

QA 115 .R79 1992

Associations and Societies

American Mathematical Society (E-Math)

<http://e-math.ams.org/>

Association for Women in Mathematics (AWM)

<http://www.awm-math.org>

Educational Realms

<http://www.ericse.org/index.html>

Math Forum Internet Mathematics Library

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

Math Forum —Teacher Education and Professional Development

<http://mathforum.org/mathed/professional.dev.html>

Mathematical Association of America (MAA)

<http://www.maa.org/>

Mathematical Sciences Education Foundation Board of the Center for Education (MSEB)

<http://www7.nationalacademies.org/mseb/>

National Council of Teachers of Mathematics (NCTM)

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

School Science and Mathematics Association (SSMS)

<http://www.ssma.org/>

Society for Industrial and Applied Mathematics

<http://www.siam.org/>

TERC

<http://www.terc.edu>

Mathematic Internet Links

Biographies of Women Mathematicians

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

Mathematics Archives

<http://archives.math.utk.edu>

Mathematicians of the African Diaspora

<http://math.buffalo.edu/mad/>

Yahoo:Science Mathematics

<http://www.yahoo.com/Science/Mathematics>

Online Reference Tools

CEC Lesson Plans

<http://www.col-ed.org/cur/>

A Dictionary of Units

<http://www.ex.ac.uk/cimt/dictunit/dictunit.htm>

Math Forum - Lesson Plans

http://mathforum.org/library/resource_types/lesson_plans/

Mathematical Atlas A Gateway to Modern Mathematics

<http://www.math.niu.edu/~rusin/known-math/>

Mathematical Atlas A Gateway to Modern Mathematics

<http://www.math.niu.edu/~rusin/known-math/>

MATH2.org

<http://www.math2.org/>

The Prime Mathematics Encyclopedia

<http://www.mathacademy.com/pr/prime/index.asp>