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NSF Mathematics Curricula Summaries

Elementary (grades K-5)

Everyday Mathematics

Publisher Contact:
Anna-Doretta Dilley
SRA/McGraw-Hill
Two Prudential Plaza, Suite 1200
Chicago, IL 60601
(800) 382-7670 Ext. 4518

Everyday Mathematics is a K-6 curriculum intended to enrich the mathematics experiences of teachers and children. It builds on fundamental mathematical strands and explores more of the mathematical spectrum including data and chance, geometry and special sense, and algebra and the uses of variables.

Investigations in Numbers, Data and Space

Publisher Contact:
Cathie Dillender
Scott Foresman
1900 E. Lake Ave.
Glenview, IL 60025
(847) 486-3660

The title of this program, *Investigations in Numbers, Data and Space*, reflects the view that mathematics in the elementary school is more than arithmetic. The *Investigations* curriculum, developed at TERC also includes activities based on recent research on young children's understanding of the mathematics of change.

Math Trailblazers

Publisher Contact:
Dennis Jaeger (ext. 1056) or
John Barbee (ext. 1123)
Kendall/Hunt Publishing Co.
4050 Westmark Dr.
Dubuque, IA 52004-1840
(800) 542-6657

A fundamental principle of the *Math Trailblazers* is that mathematics is best learned through active solving of real world problems. Lessons are grounded in everyday situations so abstractions build on experience. The curriculum introduces challenging content at every grade level, including computation, estimation, measurement, data collection, statistics, geometry, probability, simple algebra, patterns and relationships.

NSF Mathematics Curricula Summaries

Middle School (grades 6-8)

Connected Mathematics

Publisher Contact:

Cheryl Coyler

Prentice Hall

1900 East Lake Ave.

Glenview, IL 60025

(847) 486-2666

The philosophy of *Connected Mathematics* is that all students should be able to reason and communicate proficiently in mathematics. The program is designed to help students develop knowledge and skill in vocabulary use, forms of representation, materials, tools, techniques, and intellectual methods of the discipline of mathematics.

Mathematics in Context

Publisher Contact:

Brianna Villarrubia

Encyclopedia Britannica, Inc.

310 S. Michigan Ave.

Chicago, IL 60604

(800) 554-9862, ext. 7904

Mathematics in Context is a comprehensive middle school mathematics curriculum for grades 5 through 8. It emphasizes the dynamic, active nature of mathematics and the way mathematics enables students to make sense of their world. Connections are a key feature of the program – connections among topics, connections to other disciplines, and connections between mathematics and meaningful problems in the real world.

MathScape: Seeing and Thinking Mathematically

Publisher Contact:

Alice Foster

Glencoe/McGraw-Hill

8787 Orion Place

Columbus, OH 43240

(800) 848-1567

MathScape is a comprehensive, three-year middle school mathematics curriculum that focuses on mathematics in the human experience. Throughout the 21 units of this curriculum students experience mathematics as fundamental to human endeavors throughout the world and through history – endeavors such as planning, predicting, designing, creating, exploring, explaining, coordinating, comparing, and deciding.

NSF Mathematics Curricula Summaries

Middle School (grades 6-8)

MATH*Thematics*

Publisher Contact:
Denise McDowell
McDougal Littell
1560 Sherman Ave.
Evanston, IL 60204
(800) 323-5435 or (847) 424-3349

Math Thematics is a complete three-year mathematics curriculum for students in grades 6 to 8. The goals of this program are to help all students develop their abilities to reason logically, apply mathematical skills to real life activities, communicate mathematically, and feel confident in using quantitative and spatial information to make decisions.

Pathways to Algebra and Geometry

Publisher Contact:
Artis White
Voyager Expanded Learning
1125 Longmont Ave.
Dallas, TX 75247
(888) 399-1995, ext. 411

Pathways to Algebra and Geometry, formerly known as the Middle-school Mathematics through Application Project (MMAP), is a comprehensive middle-grades mathematics curriculum that integrates computer technology and interdisciplinary connections. The program is intended to be completed in the two years prior to entering algebra.

NSF Mathematics Curricula Summaries

High School (grades 9-12)

Contemporary Mathematics In Context

Publisher Contact:
Ann Lewis or Fred Czarnec
Glencoe/McGraw Hill
8787 Orion Place
Columbus, OH 43240-4027
(800) 343-7344

Contemporary Mathematics in Context, developed by the Core-Plus Mathematics Project, is a four-year, integrated mathematics program that includes a three-year core curriculum for all students, plus a flexible four-year course that continues the preparation of students for college mathematics. The curriculum builds on the theme of mathematics as sense making.

Interactive Mathematics Program (IMP)

Publisher Contact:
Kelvin Taylor
Key Curriculum Press
1150 65th Street
Emeryville, CA 94608
(800) 338-7638

The Interactive Mathematics Program (IMP) is a four-year curriculum of problem-based, integrated mathematics designed to replace the traditional Algebra I, Geometry, Algebra II, Pre-Calculus sequence. IMP integrates traditional mathematics with additional topics recommended by the NCTM *Curriculum and Evaluation Standards*, such as statistics, probability, discrete mathematics, and matrix algebra.

MATH Connections: A Secondary Mathematics Core Curriculum

Publisher Contact:
Laurie Kreindler
IT'S ABOUT TIME, Inc.
84 Business Park Dr., Suite 307
Armonk, NY 10504
(888) 698-8463

The vision of *MATH Connections* is that all students can learn mathematics. *MATH Connections* is a complete three-year high school curriculum for all students that has as its mission the conceptual development of the learner. Students who successfully complete the program are prepared for Pre-Calculus, Calculus, AP Statistics, or a senior-level mathematics course.

NSF Mathematics Curricula Summaries

High School (grades 9-12)

Mathematics: Modeling Our World (ARISE)

Publisher Contact:

Craig Bleyer

W.H. Freeman & Co.

41 Madison Ave.

New York, NY 10010

(800) 903-3019, ext. 433

Mathematics: Modeling Our World is an integrated core curriculum for high school based on the premise that students learn best when they are actively involved in the process. Students analyze situations and apply mathematical concepts needed to solve problems. Contextual questions drive the mathematics. Mathematical modeling is a central focus throughout the curriculum.

SIMMS Integrated Mathematics

Publisher Contact:

Lori Bittker

Pearson Custom Publishing

37 Scarborough Park

Rochester, NY 14625

(716) 787-1280

SIMMS Integrated Mathematics (SIMMS IM) is a complete 9-12 mathematics curriculum that uses real world contexts in an integrated approach for all students. The curriculum includes work in algebra, geometry, trigonometry, analysis, statistics, probability, matrices, and data analysis, as well as less traditional high school topics such as graph theory, game theory, and chaos theory.

K-12 Mathematics Curriculum Center

Amy Sennett
Education Development Ctr.
55 Chapel Street
Newton, MA 02458-1060
Phone: (800) 332-2429
FAX: (617) 969-1527
e-mail: mcc@edc.org
www.edc.org/mcc

The K-12 MCC receives support from the National Science Foundation (NSF) and works with the three NSF-funded grade-level mathematics implementation centers. The K-12 Mathematics Curriculum Center offers a variety of products and services to assist district leadership teams with curriculum selection and implementation. It offers a series of seminars repeatedly nationwide; the seminars address the selection and implementation of new curricula, professional development and leadership for successful implementation, and aligning curriculum and assessment. The K-12 MCC also assists district administrators and teachers as they consider curricula by making referrals to resources, materials, and other educators who have experienced the selection and implementation process.

National Grade-Level Implementation Centers

Alternatives for Rebuilding Curricula (ARC)

Contact: Sheila Sconiers
COMAP, Inc.
Suite 210
57 Bedford Street
Lexington, MA 02420
Phone: (781) 862-7878 Ext. 50
Fax: (781) 863-1202
e-mail: s.sconiers@comap.com
www.comap.com/arc

The ARC Center is a collaboration between the Consortium for Mathematics and Its Applications (COMAP) and the three NSF – supported elementary mathematics curriculum projects, Investigations in Number, Data, and Space (TERC); Math Trailblazers (University of Illinois at Chicago); and Everyday Mathematics (University of Chicago). The Center promotes the wide-scale and effective implementation of reform elementary mathematics curricula.

Show-Me Center (National Center for Standards-based Middle Grades Mathematics Curricula)

Contact: Barbara Reys
University of Missouri
303 Townsend Hall
Columbia, MO 65211
Phone: (573) 884-2099
Fax: (573) 882-4481
e-mail:
center@showme.missouri.edu
<http://showme.center.missouri.edu>

The Show-Me Project is dedicated to providing information and assistance to schools considering and/or in the process of implementing standards-based curriculum reform at the middle grade levels (grades 6-8). The Project is a partnership of curriculum developers and professional development staff at: the Show-Me Center at the University of Missouri – Columbia; the Math in context Satellite Center at the University of Wisconsin; the Connected Mathematics Project Satellite Center at Michigan State University; the MathScape Satellite Center at Education Development Center; the MATHThematics Satellite Center at the University of Montana; and The Pathways Satellite Center at WestEd.

Project staff provide assistance to state and district personnel through teacher institutes, curriculum conferences, and teacher leadership conferences. The Project provides information, materials to assist

district implementation, and an online curriculum showcase at its website. It also responds to requests for services and information needed by local district personnel.

COMPASS (Curricular Options in Mathematics Programs for All Secondary Students)

Contact: Eric Robinson
Ithaca College
306 Williams Hall
Ithaca, NY 14850
Phone: (800) 688-1829
Fax: (607) 274-3054
e-mail: compass@ithaca.edu
www.ithaca.edu/compass

The COMPASS project is a secondary school implementation project funded in part by the National Science Foundation. COMPASS consists of six sites: a satellite site for each of the five secondary – level curricula and a generic central site.

The primary function of the central site is to inform schools, districts, teachers, parents, administrators, state offices, and other groups about these innovative curricula and aid in the first general phase of selection and implementation. It also coordinates requests for additional information and assistance from the satellite sites. Each satellite provides additional information, implementation assistance, and professional development opportunities focused on its curricula to these same constituencies.