



SABES Literacy Library

Mathematics

Check the library's online catalog at sabes.org/library for additional materials on math and science. Books and media are available for loan to Massachusetts ABE teachers. Request them by emailing Sandra.darling@umb.edu. Materials will be mailed to you and may be returned to your local Massachusetts library.

Burnley, Beverly. *Hands-On Computer Activities for Teaching Math*. Jossey-Bass. (QA 135.6 .B7684 2005).

Burns, Marilyn. *About Teaching Mathematics*, 2nd edition. Math Solutions Publications. (QA 135.5 .B83963 2000). Marilyn Burns offers examples of student work, student-teacher interactions, and interesting problems. This resource offers hands-on activities and is useful for working with beginner math students.

Burns, Marilyn and Bonnie Tank. *A Collection of Math Lessons: From Grades 1 Through 6*. Math Solutions Publications. (QA 135.5 .B83967 1988). Practical lessons emphasizing problem solving.

Burns, Marilyn. *50 Problem-Solving Lessons: The Best from 10 Years of Math Solutions Newsletters*. Math Solutions Publications. (QA 135.5 .B839625 1996),

Burns, Marilyn. *Writing in Math Class*. Math Solutions Publications. (QA 135.5 .B839785 1995).

Countryman, Joan. *Writing to Learn Mathematics: Strategies That Work*. Heinemann. (QA 11 .C69 1992).

Dewdney, A.K. *200% of Nothing: An Eye-Opening Tour Through the Twists and Turns of Math Abuse and Innumeracy*. John Wiley. (QA 93 .D49 1993).

Empower Series TERC. Key *EMPower* focuses on mathematical reasoning, communication, and problem solving with strategies and approaches designed to appeal to a broad spectrum of learning styles. Each unit includes activities with clear mathematical goals and contexts that are engaging and useful for adult learners.

- *Over, Around, and Within: Geometry and Measurement*
- *Everyday Number Sense: Mental Math and Visual Models*
- *Many Points Make a Point: Data and Graphs*
- *Split It Up: More Fractions, Decimals, and Percents*
- *Keeping Things in Proportion: Reasoning with Ratios*
- *Seeking Patterns, Building Rules: Algebraic Thinking*
- *Operation Sense: Even More Fractions, Decimals, and Percents*

Erickson, Tim. *United We Solve: 116 Math Problems for Groups*. EEEPS Media. (QA 139 .E75 1996).

Flansburg, Scott and Victoria Hay. *Math Magic: How to Master Everyday Math Problems*. Perennial. (QA 135.6 .F73 2004).

Fownes, Lynda, Elizabeth Thompson and Julian Evetts eds. *Numeracy at Work*. 2nd edition. SkillPlan BC Construction Industry Skills Improvement Council. (QA 141.15 .N85 2003). Numeracy skills integral to industry and the trades. www.skillplan.ca

GED Connects. Video series from KET. 12 programs teach math ideas and the practical uses of the theory. http://www.ketadultlearning.org/pdf/ged_synopses.pdf

GED Priority Math. Massachusetts GED Math Team. 1989. (Math Shelf) Unsatisfied by commercial workbooks that stress computational skills over concept development and rote learning over thinking skills. the math team developed a book to focus on practical strategies, appropriate curriculum and critical thinking skills needed to be successful on the GED test.

Henderson, Anne. *Maths and Dyslexics*. University of Wales. 2002. (LD Area).

Hirsch, Christian R. ed. *Perspectives on the Design and Development of School Mathematics Curriculum*. NCTM. (QA 13 .P469 2007).

Huntington, Linda, Esther Leonelli and Martha Merson. *ABE Priority Math: Number Sense, Measurement, Data*. . SABES/ALRI. 1997. Based on Massachusetts Mathematics Curriculum Frameworks. . Basic math for students not ready to take the GED emphasizing real problems, activity based lessons, writing and graphing activities. (Math Shelf).

Kilpatrick, Jeremy, Jane Swafford and Bradford Findell eds. *Adding It Up: Helping Children Learn Mathematics*. National Academy Press. (QA 135.5 .A32 2001).

Kogelman, Stanley and Joseph Warren. *Mind Over Math*. McGraw-Hill. A combination of analysis of an emotional disability and practical guidance for overcoming it. (QA 11 .K74 1979).

Ma, Liping. *Knowing and teaching elementary mathematics: Teachers understanding of fundamental mathematics in China and the United States*. Lawrence Erlbaum. (QA135.5 .M22 1999) Ma strikingly reveals the complexities underlying simple operations by reporting how teachers from the U.S. and China respond to basic computation problems.

Martin, Hope. *Multiple Intelligences in the Mathematics Classroom*. Skylight. (QA 135.5 .M3664 1996).

Mathematics; A New Beginning: A Resource Book for Teachers of Adults Returning to Study. Teaching Maths to Women Project Team. TAFE Board, Victoria. 1987.

Mitchell, Robert and Dolores Emery. *Top 50 Math Skills for GED Success*. McGraw-Hill. (QA 43 .M5834 2004).

Pappas, Theoni. *Mathematical Snippets: Exploring Mathematical Ideas in Small Bites*. World Wide Pub. (QA 99 .P378 2008).

Rappaport, Josh. *Algebra Survival Guide Workbook: Thousands of Problems to Sharpen Skills and Enhance Understanding*. Singing Turtle Press. (QA 152.2 .R378 2003).

Schifter, Deborah ed. *What's Happening in Math Class: Envisioning New Practices Through Teacher Narrative. Vol 1*. IRA and Teachers College Press. (QA 11 .W465 1996).

Smith, Frank. *The Glass Wall: Why Mathematics Can Seem So Difficult*. Teachers College Press. (QA 11.2 .S65 2002).

Stenmark, Jean Kerr and others. *Family Math.*: University of California Lawrence Hall of Science. Also *Family Math for Young Children* and *Family Math the Middle School Years*. (QA)

Stigler, James W. and James Hiebert. *The Teaching Gap: Best Ideas from the World's Teachers for Improving Education in the Classroom*. The Free Press. (QA 13 .S77 1999). The authors draw on the conclusions of the Third International Mathematics and Science Study to refocus educational reform efforts.

TERC. EMPOWER Series: Key Curriculum Press. (Math shelves).
empower.terc.edu

Workplace Essential Skills: Math. PBS/KET Videos and accompanying workbook.
http://litlink.ket.org/begin_wes.aspl

Online Resources

Field Notes Special Math issue-
<http://sabes.org/resources/publications/fieldnotes/vol16/fn161.pdf>

Focus on Basics www.ncsall.net/index.php?id=156

The September 2000 issue of Focus on Basics (FOB), the quarterly newsletter of the National Center for the Study of Adult Learning and Literacy, is a special focus issue on math.

The Math Practitioner

www.literacynet.org/ann/practitioner.html

A quarterly newsletter of the Adult Numeracy Network (ANN) with practical ideas for adult numeracy instruction and articles on staff development activities around the country.

The Problem Solver

<http://www.sabes.org/resources/publications/problemsolver/index.htm>

A SABES math newsletter that focuses on Massachusetts math practices and includes usable activities and problems in every volume.

Manipulatives available for loan through the SABES Literacy Library. Cuisenaire rods, foam quilting tiles, wooden pattern blocks, Geo reflectors, one inch cubes in 6 colors, Base 10 and Balances (Scales)

11/09 in process

Suggestions welcomed

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