

THE MATHEMATICS TEACHER

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- Algebra Pak: Algebra I and Algebra II, Apple II, II⁺, IIe, DOS 3.3 (available IBM PC, XT, PCjr, or most PC compatibles). Nov., 642.
- The Algebra System, TRS-80, Models III and 4, DOS 1.3. Apr., 301.
- Algebra Word Problems, Apple, disk. Oct., 564.
- Algebra and Trigonometry, Structure and Method, Book 2, New Edition, Teacher's ed., Student text, Computer Activities with accompanying disk, Answer Key, Apple II, II⁺, and IIe, 32K, DOS 3.3. Mar., 220.
- Basic Algebra Series, TRS-80, Model III or 4 (in III mode), DOS. Mar., 220-22.
- Calcu-Plot: The Equation Solver and Plotter for the Apple II/IIe, 48K, disk. Oct., 564-65.
- Easy Graph, Apple II, IIc, IIe, II⁺, 64K, disk (available Commodore 64; IBM PC or PCjr). Nov., 643-44.
- Equations II, Apple II⁺, IIe, and IIc, 48K, disk and cassette. Mar., 222-23.
- Integers (A Microworld for Integers and Algebra); Motions (A Microworld for Transformation Geometry); Num.Aids (A Number Theoretic Toolkit); and Tree Diagram (A Microworld for Probability), Commodore Logo 64, Version 2.0, disks (available Apple). Apr., 301-2.
- Integers/Equations I & II, Apple II and IIe, 48K, DOS 3.2 or 3.3. Jan., 70.
- MATLAB I: Algebra & Trigonometry, Apple II (with language card), Apple II⁺, IIe, IIc, 48K (available IBM). Dec., 715.
- Math Utilities: Curves, Diffs, and Surfs, IBM PC, 128K, IBM color graphics adapter needed, disk (network pricing and special PCjr versions available). Nov., 644.
- WEPCO Electronic Study Guide for Precalculus Algebra, Diskette III: Functions, Apple II⁺, 48K, DOS 3.3. Jan., 71.

Applications

- Halley's Comet on Your Home Computer, Apple II, 48K, disk. May, 390-91.

Arithmetic

- Algebra-64 Skill Builders™ for the Commodore-64 Computer, disk. Nov., 642.
- BEST (Basic Educational Skills Tutor) Instructional Module: Comparative and Descriptive Terms, Apple II⁺, IIe, IIc, disk (can be used on a network for an additional fee). Dec., 712.
- BEST (Basic Educational Skills Tutor) Instructional Module: Graphs and Charts, Apple II⁺, IIe, IIc, disks (can be used on a network for an additional fee). Dec., 713.
- BEST (Basic Educational Skills Tutor) Instructional Modules: Operations and Processes: Whole Number Division and Exponents and Roots, Apple II⁺, IIe, IIc, disks (can be used on a network for an additional fee). Dec., 714.
- Basic Math Competency Skill Building, Apple II, 48K, disks. Feb., 147.
- Calculated Risk! Apple II, disk. Oct., 564.
- Decimals, Apple, 48K, DOS 3.3. Mar., 222.

Decimals: Addition and Subtraction, Commodore 64, disk (available Apple II⁺, IIe, IIc; TRS-80, Models III/4). Nov., 642-43.

Decimals: Multiplication and Division, Commodore 64, disk (available Apple and TRS-80). May, 390.

Galaxy Math Facts Game I. Galaxy Math Games: Place Value; Fractions I; Fractions II; Integers; Decimals; and Estimating and Rounding, Apple, DOS 3.3, disks (available TRS-80 Model III, 48K). Oct., 565.

Integers/Estimate the Product, TRS-80, 32K, Model I or III, disk. Feb., 147.

The King's Rule: Mathematics and Discovery, Commodore 64, disk (available Apple II, TRS-80). Oct., 565-66.

Learning & Loving It! Division of Whole Numbers, Apple II⁺, 48K, DOS 3.3. Jan., 70.

Learning & Loving It! Pre-Algebra, Part II, Apple II⁺, 48K, DOS 3.3. May, 391.

Order of Operations, Apple II⁺, IIe, IIc, 48K, disk (available Commodore 64; PET, 32K, cassette and disk—the cost for Apple or Corvus networks is 3 times list price). Oct., 566.

Ratio and Proportion, Apple II, 48K, disk. May, 391-92.

Calculus

- CompuCalc Program Diskette and CompuCalc Workbook, Apple II⁺, IIe, DOS 3.3, 64K RAM. Oct., 565.
- Interactive Experiments in Calculus, book including disk available for the Apple II⁺ or IIe, 48K. Apr., 302.

Computer Science

- COMAL: The Amazing Adventures of Captain COMAL, Book 2: Comal from A to Z; Book 3: The COMAL Library of Functions and Procedures, Commodore 64, disks; The COMAL Handbook, 2d ed., Nov., 642.
- MathWorlds: Exploring Mathematics with Computers, Apple II family, 32K, DOS 3.3 (available IBM PC and PCjr, Commodore PET and Commodore 64, Acorn). Feb., 147-48.

Games and Puzzles

- Arith-Magic II, Apple, 48K, disk. Jan., 69.
- Magic Math, TRS-80, Models 1, 3, and 4, DOS 1.3. Jan., 70-71.
- Mind Castle I (AP243) and Mind Castle II (AP244), Apple II, IIe, IIc, disk (available Franklin). May, 391.
- Targets: A Number Game, TRS-80, 48K, Model III, disks (available Atari). May, 392.

Geometry

- BEST (Basic Educational Skills Tutor) Instructional Module: Geometry, Apple II⁺, IIe, IIc, disk (can be used on a network for an additional fee). Dec., 713.
- Geometry Alive! Apple II, 48K, disks. Jan., 69-70.
- Integers (A Microworld for Integers and Algebra); Motions (A Microworld for Transformation Geometry); Num.Aids (A Number Theoretic Toolkit); and Tree Diagram (A Microworld for Probability), Commodore Logo 64, Version 2.0, disks (available Apple). Apr., 301-2.
- Mathdisk Two, Analytic Geometry, and Workbook for Mathdisk Two, Apple II, disk. Feb., 148-49.
- Triangles, Apple, disk. Nov., 644-45.

Probability

Integers (A Microworld for Integers and Algebra); Motions (A Microworld for Transformation Geometry); Num.Aids (A Number Theoretic Toolkit); and Tree Diagram (A Microworld for Probability), Commodore Logo 64, Version 2.0, disks (available Apple). Apr., 301-2.

Tests

ARCO Computer Preparation for the SAT™, Apple II, II+, IIe, disks. May, 390.
SAT Math I Micro Learn™, Commodore 64, disk (available Apple). Feb., 149.

Word Processing

EASYsearch: Resources in a Nutshell, Apple II, 64K, disks. Dec., 714-15.
The Graphic Gradebook, IBM PC and PCjr, 128K, MS DOS 1.1, 2.0, or 2.1 (available TI Professional Computer, Apple II family, and Acorn). Mar., 223-24.
Mathematics Worksheet Generator, Apple II, II+, IIe, IIc, 48K, DOS 3.3 (license fees for networks on request). Oct., 566.
TRS-80 Author I (26-1727), TRS-80, Models I and III, 32K and 48K, disk. Apr., 302.

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How Well Do Students Write Geometry Proofs? Sept., 448-56.
How to Make a Möbius Hat. Apr., 268-69. See also Nov., 651; Dec., 662.
An Improvement of the Congruent Angles Theorem. Jan., 53-54.
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Mathematics in the Real World, Really. Jan., 18-22. See also Nov., 588.
Measuring the Area of Golf Greens and Other Irregular Regions. May, 385-89. See also Dec., 663.
Microworlds: Options for Learning and Teaching Geometry. Sept., 473-80.
A Piagetian Approach to Transformation Geometry via Microworlds. Sept., 465-71.
Polyominoes: An Unsolved Problem. May, 364-65.
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A Property of Inversion in Polar Coordinates. Jan., 60-61.
Reflections on Miniature Golf. May, 351-53.
The Shape of Instruction in Geometry: Some Highlights from Research. Sept., 481-86.
Spadework Prior to Deduction in Geometry. Sept., 419-28.
The Spider and the Fly: A Geometric Encounter in Three Dimensions. Feb., 98-104.
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A Brief Historical Dictionary of Mathematical Terms. Nov., 638-40.
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Developing Estimation Strategies. Feb., 112-18.

Developing Problem-solving Skills. Dec., 685-92, 697-98.

Developmental Math: Problem Solving and Survival. Nov., 592-96.

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What's Your T.Q.*? Nov., 608–10.

Practical Resources for Teaching Mathematics In the Secondary School Classroom



Classroom Ideas from Research on Secondary School Mathematics, by Donald J. Dessart and Marilyn N. Suydam. A concise review of the numerous research studies on the teaching and learning of algebra and geometry. "Ideas" are highlighted in rectangles throughout the volume, making the teachers' selection of the ones they wish to try in their classrooms a quick and convenient process. 1983, 128 pp., #322, \$7

Computing and Mathematics: The Impact on Secondary School Curricula, edited by James Fey. With the wide use of computers, what must change in your mathematics programs? This analytical book specifically discusses the impact of computing on algebra, geometry, calculus, and the college preparatory curriculum. 1984, 100 pp., #337, \$7.50

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Student Merit Awards: Middle School and High School, edited by Leroy Sachs. Two booklets that stimulate the mathematics achievement of students by providing challenging research projects. Contains reproducible units for student use, as well as teacher notes and a sample certificate that can be photocopied and awarded to students. Middle School: 15 units, #335, \$6. High School: 18 units, #336, \$9.

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