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Quick Draw: Developing Spatial Sense in Mathematics. Sept., 90.

Teacher Preparation

- Start with Manipulatives Kit for Staff Development. Oct., 174.
Teacher Talk Tapes: The Math Trail, Mathematics and Communication, Oobleck, Hands-on Math. May, 507-8.

Teaching Methods

- 61 Cooperative Learning Activities in Algebra 1. May, 507.

TECHNOLOGY-BASED MATERIALS

Algebraic Thinking

- Boxer Introductory Algebra, Windows 3.1, Windows 95, or Windows NT. May, 498-99.

Assessment

- EX Draw, Macintosh, DOS, DOS Windows, Windows 3.1. Sept., 85-86.
Learner Profile Observables—Middle School Math. May, 500.

Applications

- The New Adventures of Jasper Woodbury: Blueprint for Success, Macintosh. Feb., 380.

Geometry

- Accessmaths2, Ages 7 to 11, IBM PC or compatible. Sept., 84.
Escher Interactive: Exploring the Art of the Infinite, CD-ROM. May, 499.
Explorations with TesselMania! Activities for Math and Art Classrooms. May, 499-500.

Measurement

- Fraction Attraction, Macintosh and Microsoft Windows. Sept., 84-85.

Numbers, Number Systems, and Number Theory

- How the West Was Negative One, Macintosh. Jan., 314.

Patterns

- Escher Interactive: Exploring the Art of the Infinite, CD-ROM. May, 499.
Explorations with TesselMania! Activities for Math and Art Classrooms. May, 499-500.

Teacher Preparation

- Learning about Teaching: An Interactive Tutorial Program to Facilitate the Study of Teaching, CD-ROM. May, 498.

Spatial Sense

- How Many Blocks? Mar.-Apr., 404-11.

Special Needs

- See *Inclusion*.

Statistics

- See also *Data Analysis and Graphs*.
A Big Gulp Activity. Nov.-Dec., 210-12.
Pennies from Heaven—Nickels from Where? Nov.-Dec., 240-48.

Teacher Preparation

- Exploring and Changing Visions of Mathematics Teaching and Learning: What Do Students Think? Sept., 40-43.
MATHCOUNTS: It Really Works! Sept., 32-33.
Selecting and Creating Mathematical Tasks: From Research to Practice. Feb., 344-50.
Understanding Students' Understanding of Graphs. Nov.-Dec., 224-27.

Teaching Methods

- Another Perspective on Concept Maps: Empowering Students. May, 464-69.
Encouraging Mathematical Thinking. Sept., 66-72.
Learning to See the Wind. May, 470-73.
Mathematical Tasks as a Framework for Reflection: From Research to Practice. Jan., 268-75.
Mathematics Notebooks in Middle School and Junior High School. Sept., 34-38.
Readers Write. Oct., 124, Feb., 323, 356.

Technology

- Exploring Geometry with Technology. Mar.-Apr., 436-42.
Readers Write. Sept., 63, Oct., 99, May, 451.
A Variation on "And the Winner Is . . ." Oct., 148-52.

Time

- See *Measurement*.

Volume

- See *Measurement*.

Worksheets

- See *Activities*.

Writing

- Call for Manuscripts for the 2000 Focus Issue: Mathematical Communication. May, 511.
Creating a Mathematical Storybook. Oct., 126-27.
Mathematics Notebooks in Middle School and Junior High School. Sept., 34-38. ▲