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MATHEMATICS

X-Power Interactive

Co-developed by CRDG's Mathematics Section, John Burstein of Slimgoodbody Corporation, ASAP of University of Maine, and Eggington Productions

X-Power Interactive is a unique supplement to any algebra I course and uses a research-based approach to develop algebraic concepts and skills. A dynamic multimedia approach develops concepts common to all algebra programs from real numbers to radical and rational expressions and equations. Students are engaged through animated characters in episodic stories, problem sets with tutorials, and games. *X-Power Interactive* addresses NCTM content and process standards.

The package includes

- Teacher Resource Manual
- Ten instructional units
- Quizzes, Tests, and Labs
- Site license
- Installation Guide
- Seven CDs containing content and User Installation Program

Item #MA201, ill., 2007, loose-leaf with binder, **ISBN 978-1-58351-087-2**
Item #MA202, Teacher Resource Manual with binder
Item #MA203, Teacher Resource Manual (pages only)

Traffic on the Information Superhighway

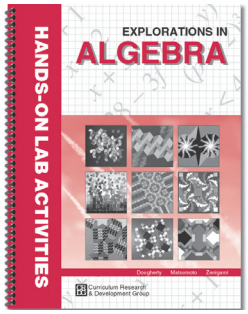
Lucy Payne, Douglas Grouws with Kristin Cebulla, Christine Sprecher, and Matthew Winsor

Traffic is an integrated mathematics unit, in two parts, for middle-grades students to build skills in collecting data and analyzing statistics.

- *Traffic* makes math approachable, understandable, and fun.
- *Traffic* focuses on important mathematics and realistic tasks by using real-time data from the Internet along with technological tools such as spreadsheets and graphing programs.
- *Traffic* aligns with the NCTM 2000 Standards.
- *Traffic* complements other curriculum materials.
- *Traffic* includes blackline masters plus a CD-ROM containing Microsoft Word and portable document format (PDF) files, allowing the teacher to customize student materials.

Item #T001, Unit 1, 154pp, ill., 2003, loose-leaf with binder and CD-ROM, **ISBN-10 1-58351-037-0, ISBN-13 978-1-58351-037-7**

Item #T002, Unit 2, 149pp, ill., 2003, loose-leaf with binder and CD-ROM, **ISBN-10 1-58351-038-9, ISBN-13 978-1-58351-038-4**



Explorations in Algebra

Barbara J. Dougherty, Annette Matsumoto, Fay Zenigami

These lab explorations engage students in activities to explore algebraic concepts, extend understanding of mathematics, and enhance algebraic skills. Technologies such as graphing calculators are used in several labs. Other labs use problem solving or manipulatives as the basis for students' explorations.

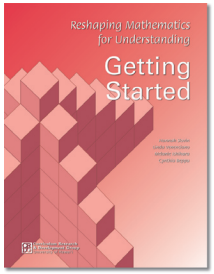
Item #A304, 216pp., 2002, spiral
ISBN-10 1-58351-021-4
ISBN-13 978-1-58351-021-6

Reshaping Mathematics for Understanding *RMU*

Hannah Slovin and Linda Venenciano

RMU is designed to help middle-grades students gain a deeper understanding of important mathematics topics and concepts developed over time through problems that invite communication among students leading to critical thinking and problems that help students make connections among topics, and labs for more intense study. RMU may be used as a basis for or a complement to any curriculum program. The program topics range from getting started to algebra patterns and number theory in a series of 14 independent units.

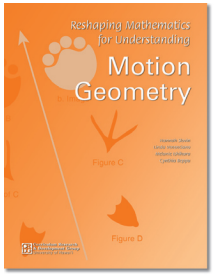
The RMU program currently has 3 independent units available, with more in production. Teachers may choose topics according to students' needs. Each unit includes teacher notes, blackline student masters, and suggested assessments.



Getting Started

Students practice communication, representation, and reasoning through simple and engaging problems. Learning these behaviors creates a positive learning environment essential to deepening students' understanding of concepts.

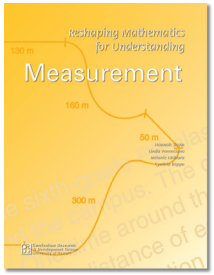
Item #R001, 58pp., 2003, spiral, **ISBN-10 1-58351-023-0, ISBN-13 978-1-58351-023-0**



Motion Geometry

Students study concepts of geometry they will use throughout middle-grade and higher-level courses. The problems help them develop the spatial reasoning they can apply to other topics such as number, measurement, proportional reasoning, and graphing on the coordinate plane.

Item #R002, 119pp., 2003, spiral, **ISBN-10 1-58351-024-9 ISBN-13 978-1-58351-024-7**



Measurement

Students explore the properties of geometric measurement (length, area, volume, and angle measurement) as they learn the procedures for measuring objects. Students use concepts and skills from many areas of mathematics, such as number and operations, geometry, graphing, and proportional reasoning.

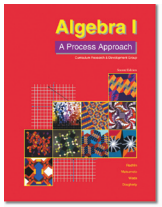
Item #R003, 114pp., 2003, spiral, **ISBN-10 1-58351-025-7 ISBN-13 978-1-58351-025-4**

Algebra I: A Process Approach

Algebra I: A Process Approach stimulates students to think critically. Algebraic concepts and skills are developed through problem-solving tasks.

The course begins with problem-solving strategies, then moves through the real numbers, equations and inequalities, graphing, functions, systems of equations and inequalities, polynomials, products and factors, quadratic equations, rational expressions and equations, and radical expressions and equations.

Algebra I: A Process Approach has been identified as a promising program in mathematics education by the Laboratory Network Program of the U.S. Department of Education's Office of Educational Research and Improvement. The associated professional development program is recognized by the National Staff Development Council as a high quality program that has evidence of improving student learning by changing instructional strategies.



Student Text

Sidney L. Rachlin, Annette Matsumoto, Li Ann Wada, Barbara J. Dougherty

Readings, problem sets, discussions of solutions

Item #A301, ill., 2nd ed., 2001, hard,
ISBN-10 1-58351-008-7
ISBN-13 978-1-58351-008-7

Teacher's Guide

Annette Matsumoto, Barbara J. Dougherty, Li Ann Wada, Sidney L. Rachlin, Fay Zenigami

Scope and sequence, lesson notes, questions for discussion, answers to problems, and writing tasks. Includes item #A303, A Process Approach to Middle and Secondary School Mathematics: Algebra I CD-ROM set.

Item #A302, ill., 2nd ed., 2001, loose-leaf with binder,
ISBN-10 1-58351-011-7,
ISBN-13 978-1-58351-011-7

Teacher Resource Set

Barbara J. Dougherty, Annette Matsumoto, Li Ann Wada, Fay Zenigami, Sidney L. Rachlin, Jenny Simmons

Tests, quizzes, rubrics, lab activities, and blackline masters for warm-ups and selected problems

Item #A205, ill., 2nd ed., 2001, loose-leaf with binder,
ISBN-10 1-58351-013-3,
ISBN-13 978-1-58351-013-1

PROFESSIONAL DEVELOPMENT

The following professional development for teachers is offered.

- Algebraic Concepts for Elementary Teachers; A Process Approach to Middle and Secondary Mathematics: Algebra I
- Reshaping Mathematics with the National Council of Teachers of Mathematics (NCTM) Process Standards
- The "Write" Way Mathematics Journal Prompts
- X-Power Interactive

Working 'Round a Problem *W'RAP*

Barbara Dougherty, Hannah Slovin
Working Group: Irene Mackay, Claire Okazaki, Melfred Olson, Wendy Torigoe, Linda Venenciano, Fay Zenigami

Working 'Round a Problem is designed for middle and high school students to solve problems involving important mathematics in number and operations, patterns, functions and algebra, geometry, measurement, data analysis and probability. The non-traditional and thought-provoking problems are presented on individual cards.

Teachers may use these problems in a variety of ways.

- as a warm-up to your lesson
- as extension problems
- as a discussion tool for multiple solution strategies
- as a means to help students improve in constructed-response assessment items

The **W'RAP** box contains 250 problems, approximately 50 for each of the NCTM content strands, suitable for mathematics students in grade five through high school geometry, conveniently packaged in a durable box, organized by section for easy access.

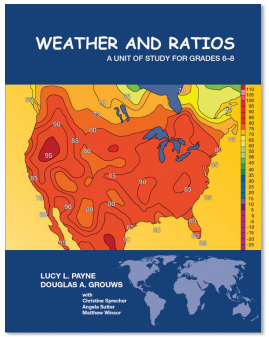
Item #MA101, 2006, boxed, **ISBN-10 1-58351-051-6, ISBN-13 978-1-58351-051-3**

Weather and Ratios

NEW

Lucy Payne, Douglas Grouws with Christine Sprecher, Angela Sutter, and Matthew Winsor

Weather and Ratios is a mathematics unit that focuses on rational numbers and comparisons of rational numbers with a heavy emphasis on ratios and percentages.



- *Weather & Ratios* is designed for students in grades 6–8.
- *Weather & Ratios* aligns with the NCTM 2000 principles and standards.
- *Weather & Ratios* is based on specific Internet sites that provide current and historical weather data.
- *Weather & Ratios* helps teachers integrate concepts from more than one discipline.
- *Weather & Ratios* includes a teacher's manual and a CD-ROM.

Item #WR101 Weather & Ratios Book and CD Set, 157pp., 2008, spiral, **ISBN 978-1-58351-086-5**

The "Write" Way Mathematics Journal Prompts & More

Barbara J. Dougherty

New standards require students in mathematics instruction to write, speak, and think in their responses to mathematics tasks. The new editions of *The "Write" Way Mathematics Journal Prompts & More* include extended problem-solving tasks and open-ended discussion and writing assessment items that require self-constructed responses from students. Each book contains journal prompts for a full year of writing tasks in mathematics.

The "Write" Way Mathematics Journal Prompts & More features

- more than 150 prompts;
- rubrics for writing tasks that reflect the requirements of the No Child Left Behind legislation;
- samples of quality student writing;
- Algebra II Journal Prompts & More, a completely new book, added to the series.

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