

Dimension 2000 Product Descriptions

Dimension 2000's supplemental math products feature instructional strategies and student engagements essential for skill development, conceptual understanding, and retention of knowledge. All our products are designed for ease of use by the classroom teacher. All Dimension 2000 products are price effective for efficient use of schools' resources.

Dr. Thomas's Classroom Management for Math is a 'how to' guide for managing student behavior, curriculum, time for student engagements, instructional strategies, and assessment. The classroom management text is chock-full of practical management ideas, detailed management processes, and reproducible support materials and student activities. \$59

Dr. Thomas's High Achievement Math Program (Available for Grades 3 - 8) consists of:

- Daily Warmup Transparencies (100 problem solving and computation challenges)
- Mental Math Strings * (100)
- Weekly Computation Challenges and Student Progress Chart
- My Math Dictionary (Standards based visual organizer for vocabulary development)
- Search and Solve Cutouts (Problem solving reinforcement activity)
- P3CR critical thinking activities (Paired Learner)
- Math Breakdown (Templates that help students develop problem solving skills)
- Read and Write Activities*
- Styles and Strategies for Middle Grades Mathematics (featuring 27 strategies)*

The daily warmup transparencies provide problem-solving practice in the areas of number sense, algebra, measurement, geometry, statistics, data analysis, and probability, and computation proficiency challenges. The Mental Math Strings help students build vocabulary, a strong math knowledge base, and mental math abilities. The computation challenges provide ongoing skill development in the areas of computation (rational numbers), rounding, money, place value, exponents, and equations. The P3CR activities provide paired-learners opportunities to solve problems that correlate to National and State-testing content strands. Cumulatively, the components of Dimension 2000's Math High Achievement Program will provide your students with persistent practice and critical-thinking engagements needed to develop proficiency with essential math skills and concepts. For best results, it is recommended that one program kit be provided for each teacher. \$299 per resource kit.

* Mental Math Strings, Read and Write Activities, and Styles and Strategies can be purchased separately.

Dr. Thomas's Algebra I 'Achieve and Succeed' program consists of daily warmup transparencies, paired learner P3CR activities, and power challenges that combine problem solving, algebra, and the content strands: number sense, measurement, geometry, statistics, data analysis, and probability. The Algebra I warmups help students to retain algebra skills, apply algebra concepts, and prepare for end of year testing. The P3CR activities challenge paired learners to solve non-routine problems. The Power Challenges combine cumulative review with all six levels of Bloom's taxonomy. A *Styles and Strategies* text is included. \$299

Dr. Thomas's Geometry 'Achieve and Succeed' program consists of daily warmup transparencies that combine problem solving, algebra, and geometry. The Geometry warmups help students to review and retain geometry skills, review and apply algebra concepts, and prepare for end of year testing. Dr. Thomas's Geometry Warmups provide a great way for Geometry students to sharpen and maintain Algebra I skills while preparing for the upcoming study of Algebra II. A *Styles and Strategies* text is included. \$299

Dr. Thomas's Math Concepts 'Achieve and Succeed' program consists of daily warmup transparencies and paired learner activities that feature Standards based problem solving. The Math Concepts warmups help students to review and retain problem solving skills needed for graduation tests and life. Dr. Thomas's Math Concepts 'Achieve and Succeed' program is a great way for all high school students to reinforce and strengthen general math concepts while preparing for graduation. A *Styles and Strategies* text is included. \$299

Dr. Thomas's High School Mathematics Warmups: College-Prep Level consists of daily warmup transparencies that provide daily practice for college-entrance exams. The college-prep level warmups feature critical-thinking problems from Algebra I, Geometry, and Algebra II. Dr. Thomas's High School Mathematics Warmups: College-Prep Level is a cost-effective alternative to costly college-prep test-preparation programs. \$299

Dr. Thomas's P3CR Math Activities consists of four sets of paired-learner critical-thinking activities for General Math, Pre-Algebra, Algebra I, and Geometry. The paired-learner activities engage students in problem solving, collaboration, communication, connections, and reasoning (P3CR). The P3CR math activities build critical thinking skills through weekly (traditional) or bi-weekly (block) implementations. \$59

Dr. Thomas's P3CR Math Activities II consists of three sets of paired-learner critical-thinking activities for Algebra II, Advanced Algebra / Trigonometry, and Calculus. The paired-learner activities engage students in problem solving, collaboration, communication, connections, and reasoning (P3CR). The P3CR math activities build critical thinking skills through weekly (traditional) or bi-weekly (block) implementations. \$59

Dr. Thomas's Reading and Writing Activities in Mathematics consists of two sets of activities.

- *Dr. Thomas's Reading Activities* includes a collection of 15 short math-related stories and 15 corresponding visual organizers. The stories feature topics of interest to students. The visual organizers help students to engage in reading, writing, vocabulary, reading comprehension, and problem solving. Invite your students to read in math class and connect number sense and analytical thinking with reading.
- *Dr. Thomas's Writing Activities* includes 21 sets of writing prompts that appeal to the learning styles of students. The writing prompts challenge students to create, explain, evaluate, and compare and contrast math ideas correlated to number sense, algebra, geometry, measurement, and statistics. Students do not have to respond to all the writing prompts in a given set. Instead, they can choose to respond to the one or two that best matches their interests. *Dr. Thomas's Writing Activities* is a great tool for differentiating math instruction by learning styles.

Dr. Thomas's Reading and Writing Activities in Mathematics \$59

Fraction Alley is an innovative and exciting board game that cooperatively engages three students in the development of skills associated with operations on fractions, fraction decimal equivalencies, and measurement. In Fraction Alley, students advance their game pieces in fractional and mixed number increments along a game path that is scaled in eighths of inches, quarter inches, half inches, and unit inches. Each time a student lands on a fractional position on the path, they are assigned a problem to solve. Students are awarded varying amounts of paper moneys for correctly solving the fraction problems. The Fraction Alley class set comes with enough game pieces and game boards for up to 45 students. Four problem libraries include computation, math concepts, algebra I, and geometry. \$299 for the class kit (up to 45 students)

Dimension 2000's 'What It Is?' is a computer based question / answer game that all students will enjoy. The game is designed to be moderated by the teacher and played with the entire class. While the teacher serves as the game moderator, teams of students select categories, answer math questions, and earn team points. Game categories, questions, and answers are projected on a screen using one computer and a projection device. Math categories, questions, and answers are created and controlled by the classroom teacher through the maintenance component of the game's software. The What It Is? CD comes with five startup game files. The What It Is? game can be purchased as a single one-computer piece of software or a multi-user site license. The 'What It Is?' game will be web based starting in the 2006-07 school year. \$99 for one computer, \$999 unlimited site license for one school.

Dimension 2000's 'Hands On Experience' is a superb math manipulative kit complete with hands-on materials for 15 paired learners (designed for a class of 30 students). The kit consists of:

- **two sided counters** (15 sets)
- **clear counters** (1 teacher set)
- **tangrams** (15 sets)
- **dice** (15 sets)
- **rulers (inch/cm)** (15)
- **vinyl measure tapes** (15)
- **circle protractors** (15)
- **teacher modeling protractor** (1)
- **math cards** (15 sets)
- **folding geometric solids** (1 class set)
- **geometry templates** (15)
- **compasses (non point)** (15)
- **color pencils** (1 class set)
- **scissors** (15)
- **tape and glue sticks** (15 of each)
- **interior storage containers** (4)
- **a great storage and carry case** (1)
- **transparency cards** (1 teacher set)

• Also included is an activity guide with twenty step-by-step, field-tested math activities that students will love! All the activities are high yield math activities that will make a positive impression on your students and a positive difference in math achievement.

• The 'Hands-On Experience' Math Manipulative Kit also comes with our middle grades Styles and Strategies text with 27 research based math strategies!

- The cost of the total package:
(manipulatives, activity guide, strategies text, and heavy duty case) is \$399.

Styles and Strategies for Teaching Mathematics (Middle Grades and High School Texts)

- Math instruction strategies that have been researched, developed, tried, tested, and refined
- A survey for the learning environment in your own math classroom
- 27 research based strategies that are grouped by learning styles:
mastery – understanding – interpersonal – and self expressive
- 'Teacher Talk' for each strategy; straight talk from the author regarding an introduction to the strategy, the need for the strategy, a detailed explanation on how to use the strategy, and sample student tasks that show how to apply the strategy in ways that help students.
- Reproducible student activities for every strategy and
- Information on how you can order Learning Style Inventories for your students.
- **The Styles and Strategies texts are tools that can positively and significantly impact math instruction and math achievement in your classrooms and schools! \$59**

Explore our website for more detailed information regarding our products and services.