



SMART STRATEGIES SUCCESSFUL STUDENTS



- Algebra/Geometry
- Differentiated Instruction
- Financial Literacy
- Formative Assessment
- Fractions
- Leadership & Coaching
- Math Talk
- Number Sense

Smart solutions
for connecting
Common Core state
content and practice
standards

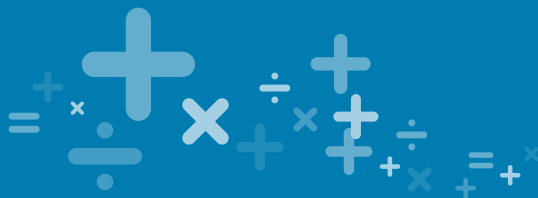


SOLVE THE PROBLEM™

Our Mission

Math Solutions is dedicated to improving students' learning of mathematics by providing educators with the highest-quality professional development services and resources.

Math Solutions has 30 years of experience focusing exclusively on mathematics education and professional development. We draw on this foundation to provide accelerated, sustainable improvement in student learning and achievement in mathematics.



Our Founder



Marilyn Burns, the founder of Math Solutions, is one of today's most highly respected mathematics educators and authors. Inspired by her vision and dedication, Math Solutions provides on-site and online mathematics professional development, has published more than 90 professional development books and DVDs, and offers courses attended by thousands of teachers and administrators.

For more than 40 years, Marilyn has taught children, led professional development sessions, spoken at educational conferences nationwide, written children's books, developed professional development multimedia, and created mathematics resources for teachers and administrators. Her classroom-grounded research, experience, and insight continue to transform mathematics teaching across the United States.




Marilyn Burns just recently completed co-authoring Math Reasoning Inventory, a free online formative assessment tool designed to make teachers' classroom instruction more effective. The MRI questions focus on number and operations and are based in content from the Common Core State Standards for Mathematics prior to sixth grade.

Visit mathreasoninginventory.com

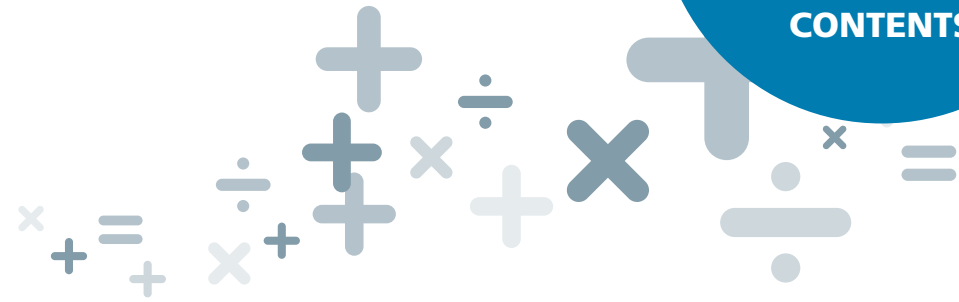


Math Reasoning Inventory™

Look for:

-  Also essential for college-level teacher education
-  Must-have resource for Common Core State Standards
-  Includes study guide resource

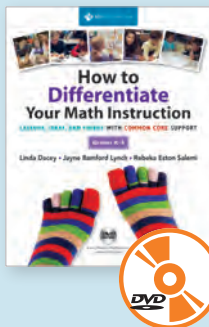
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NEW BOOKS & RESOURCES

NEW TITLE



How to Differentiate Your Math Instruction: Lessons, Ideas and Videos with Common Core Support, Grades K–5

Linda Dacey, Jayne Bamford Lynch, and Rebeka Eston Salemi

This multimedia resource offers:

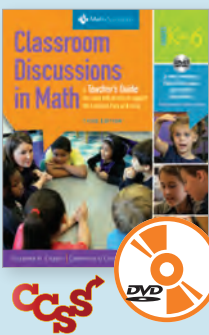
- 21 video examples that illustrate how everything from menus and tiered tasks to math workshops and multiple intelligences centers can be carried out in the classroom;
- support for the Common Core State Standards of Mathematics, including lesson examples that focus on certain standards and integrate mathematical practices;
- Take Action! callouts that highlight exceptional ideas for differentiation and allow a reader-friendly way to access the text;

ISBN: 978-1-935099-40-6

Grades K–5

384 pages >> \$71.95

NEW TITLE



Classroom Discussions in Math: A Teacher's Guide for Using Talk Moves to Support the Common Core and More, Grades K–6: A Multimedia Professional Learning Resource

Suzanne H. Chapin, Catherine O'Connor, and Nancy Anderson

This resource offers an award-winning, unparalleled look at the significant role that classroom discussions can play in teaching mathematics and deepening students' mathematical understanding and learning. Based on a four-year research project funded by the U.S. Department of Education, this resource is divided into three sections:

- Section I: Getting Started: Mathematics Learning with Classroom Discussions
- Section II: The Mathematics: What Do We Talk About?
- Section III: Implementing Classroom Discussions

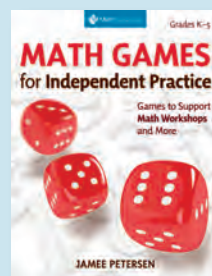
This multimedia third edition offers 46 video clips from every grade, kindergarten through sixth, showing students and teachers engaged in successful classroom discussions.

ISBN: 978-1-935099-56-7

Grades K-6

448 pages >> 71.95

NEW TITLE



NEW! Math Games for Independent Practice: Games to Support Math Workshops and More, Grades K-5

Jamee Peterson

This dynamic collection of more than 30 math games supports students' learning of number in math workshops. Each game uses the workshop structure presented in the all-time favorite book, *From Reading to Math: How Best Practices in Literacy Can Make You a Better Math Teacher*. Games include reproducibles and are correlated to the Common Core State Standards.

ISBN: 978-1-935099-43-7

Grades K–5

304 pages >> \$34.95



NEW! It Makes Sense! Using the Hundreds Chart to Build Number Sense, Grades K–2

Melissa Conklin and Stephanie Sheffield

(See page 12 for complete product description)

ISBN: 978-1-935099-37-6

Grades K–2

288 pages >> \$31.95



Teaching Preschool and Kindergarten Math: Ideas, Lessons, and Videos for Building Foundations in Math, A Multimedia Professional Learning Resource, Grades PreK–K

Ann Carlyle and Brenda Mercado

More than 175 Ideas, Lessons, and Videos for Building Foundations In Math, Grades PreK–K. (See page 33 for complete product description)

ISBN: 978-1-935099-44-4

Grades PreK–K

368 pages >> \$69.95



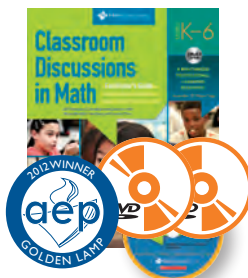
The Association of Educational Publishers (AEP) Awards seal is recognized by teachers and parents as a mark of excellence in education. Finalist or winner status in the awards tells readers that the product has met rigorous standards for quality, professional content for education. All resources on this page have received an AEP award.

Classroom Discussions in Math: A Facilitator's Guide to Support Professional Learning of Discourse and the Common Core, Grades K–6

Nancy Canavan Anderson, Suzanne H. Chapin, and Catherine O'Connor

For a full description of this resource, see Multimedia Resources, page 32.

- Golden Lamp Award
 - Professional Development

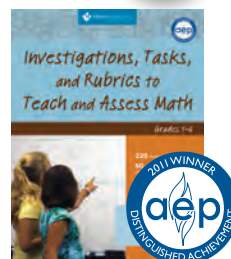


Investigations, Tasks, and Rubrics to Teach and Assess Math, Grades 1–6

Pat Lilburn and Alex Ciurak

For a complete description of this book, see page 30.

- Distinguished Achievement Award
 - Professional Development: Assessment

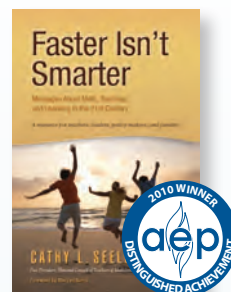


Faster Isn't Smarter: Messages About Math, Teaching, and Learning in the 21st Century

Cathy L. Seeley

For a complete description of this book, see Math at School & at Home, page 26.

- Distinguished Achievement Award
 - Professional Development: School Improvement

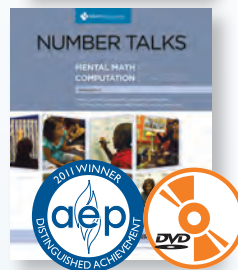


Number Talks: Helping Children Build Mental Math and Computation Strategies, Grades K–5, A Multimedia Professional Learning Resource

Sherry Parrish

For a complete description of this multimedia resource, see page 13.

- Distinguished Achievement Award
 - Professional Development: Curriculum

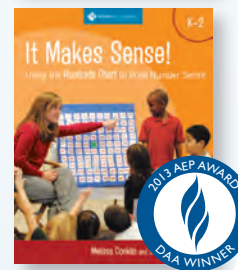


NEW! It Makes Sense! Using the Hundreds Chart to Build Number Sense, Grades K–2

Melissa Conklin and Stephanie Sheffield

For a complete description of this book, see page 12.

Distinguished Achievement Award: Subject

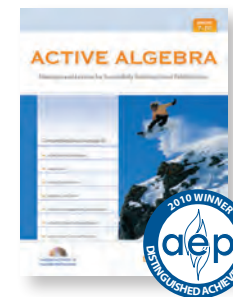


Active Algebra: Strategies and Lessons for Successfully Teaching Linear Relationships, Grades 7–10

Dan Brutlag

For a complete description of this book, see Algebra, page 16.

- Distinguished Achievement Award
 - Professional Development: Learning Styles

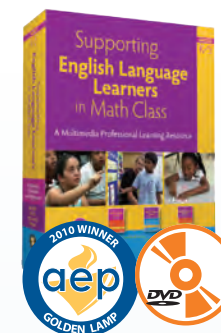


Supporting English Language Learners in Math Class, A Multimedia Professional Learning Resource

Rusty Bresser, Carolyn Felux, Kathy Melanese, and Christine Sphar

For a complete description of this resource, see Multimedia Resources | DVDs, page 33.

- Golden Lamp Award
- Distinguished Achievement Awards
 - Curriculum: ESL/ELL
 - Professional Development: Curriculum and Instruction: K–5
 - Professional Development: Differentiated Instruction: K–5
 - Professional Development: Education Equity

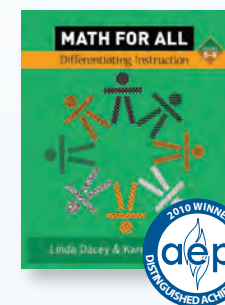


Math for All: Differentiating Instruction, Grades 6–8

Linda Dacey and Karen Gartland

For a complete description of this book, see Differentiated Instruction, page 24.

- Distinguished Achievement Awards
 - Curriculum and Instruction: Math
 - Professional Development: Differentiated Instruction: 6–8
 - Professional Development: Curriculum and Instruction: 6–8

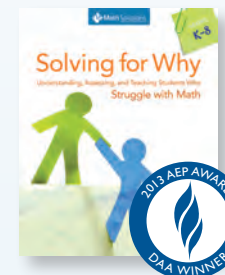


NEW! Solving for Why: Understanding, Assessing, and Teaching Students Who Struggle with Math, Grades K–8

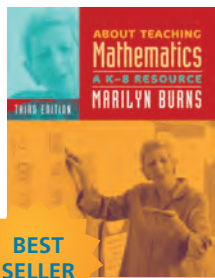
John Tapper

For a complete description of this book, see page 24.

Distinguished Achievement Award: Assessment and Remediation



FOUNDATIONS FOR TEACHING MATH



BEST SELLER



About Teaching Mathematics: A K–8 Resource, Third Edition

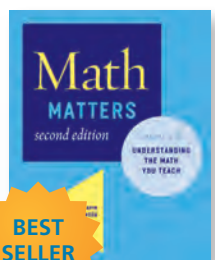
Marilyn Burns

Supporting a student-centered problem-solving approach proven by research to best develop students' thinking and reasoning of mathematics, Marilyn presents invaluable insight in a standards-driven, practical, and accessible manner.

This essential tool includes more than 240 classroom-tested activities and presents the content and pedagogy teachers need to understand the math they are responsible for teaching, use effective instructional strategies, and improve students' understanding and achievement.

From hands-on, low-preparation lesson ideas to in-depth explorations of the content areas, *About Teaching Mathematics* is the all-in-one resource you'll consult time and time again.

ISBN: 978-0-941355-76-6 Grades K–8 464 pages >> \$59.95



BEST SELLER

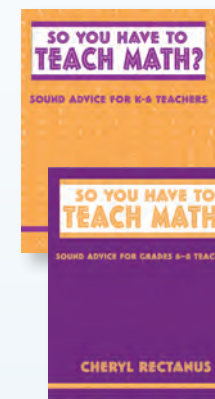


Math Matters: Understanding the Math You Teach, Grades K–8, Second Edition

Suzanne H. Chapin and Art Johnson

This must-have resource is widely acknowledged for helping teachers, coordinators, and college faculty deepen their understanding of the mathematical concepts they teach. *Math Matters* provides an in-depth study with 14 chapters covering number sense, computation, addition, subtraction, multiplication, division, fractions, decimals, percents, ratios, algebra, geometry, spatial sense, measurement, statistics, and probability. Over 100 activities give readers an opportunity to connect ideas, compare and contrast concepts, and consider how students understand the mathematics presented.

ISBN: 978-0-941355-71-1 Grades K–8 376 pages >> \$45.95



So You Have to Teach Math? Sound Advice for Teachers Series

Marilyn Burns, Robyn Silbey, and Cheryl Rectanus

Offering practical, quick-reference advice guaranteed to give all teachers support and direction for improving their mathematics teaching, these unique resources address common concerns about the K–8 math curriculum using a lively Q&A format. The over 100 questions and answers in each book provide helpful ideas for leading class discussions, incorporating writing into math class, dealing with homework issues, communicating with parents, and more.

ISBN: 978-0-941355-29-2 Grades K–6 136 pages >> \$27.95

ISBN: 978-0-941355-73-5 Grades 6–8 216 pages >> \$27.95

So You Have to Teach Math? Complete Set of 2 Books

ISBN: 978-0-941355-96-4 \$47.52

It's Not a Check List

The Standards for Mathematical Practice in the CCSS are connected and coherent across the K–12 continuum and throughout the study of mathematics principles and applications. They inform the way students learn to engage with mathematics as they build conceptual understanding and content mastery throughout their K–12 careers. Thinking of the practice standards holistically is a catalyst for change in math curriculum, instructional methods, and assessment.

As an example, when assessing students, one performance task will often incorporate multiple practice standards. As students tackle a math problem, teachers can determine whether they understand the problem from a conceptual vantage point and if they are able to persevere in arriving at solutions. Teachers may be able to connect “perseverance” with a student's application of both abstract and quantitative reasoning, as well as that student's ability to construct a sound argument for the reasoning used. It's a new way of thinking about mathematics from both the teacher's and student's vantage points.



Math Solutions books and resources support the same strategies and methods for improving teacher effectiveness and student proficiency that are now embodied in the Common Core.

Learn more about Math Solutions approach to CCSS by watching the "Explain It To Me" video series at mathsolutions.com/ExplainItToMe.

COMMON CORE STATE STANDARDS

NEW! Classroom Discussions in Math: A Teacher's Guide for Using Talk Moves to Support the Common Core and More, Grades K–6: A Multimedia Professional Learning Resource

Suzanne H. Chapin, Catherine O'Connor, and Nancy Anderson



NEW! How to Differentiate Your Math Instruction: Lessons, Ideas, and Videos with Common Core Support, Grades K–5

Linda Dacey, Jayne Bamford Lynch, and Rebeka Eston Salemi



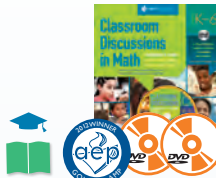
Beyond Pizzas & Pies: 10 Essential Strategies for Supporting Fraction Sense, Grades 3–5

Julie McNamara and Meghan M. Shaughnessy



Classroom Discussions in Math: A Facilitator's Guide to Support Professional Learning of Discourse and the Common Core, Grades K–6,

Nancy Canavan Anderson, Suzanne H. Chapin, and Catherine O'Connor



Good Questions for Math Teaching: Why Ask Them and What to Ask Series, Grades K–6 & 5–8

Peter Sullivan and Pat Lilburn, and Lainie Schuster and Nancy Canavan Anderson



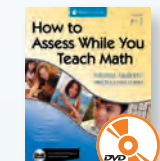
How to Assess While You Teach Math: Formative Assessment Practices and Lessons, Grades K–2, A Multimedia Professional Learning Resource

Dana Islas



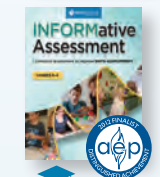
INFORMative Assessment: Formative Assessment to Improve Math Achievement, Grades K–6

Jeane M. Joyner and Mari Muri



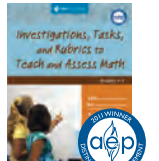
Investigations, Tasks, and Rubrics to Teach and Assess Math, Grades 1–6

Pat Lilburn and Alex Ciurak



It Makes Sense! Using Ten-Frames to Build Number Sense & It Makes Sense! Hundred Charts, Grades K–2

Melissa Conklin



It's All Connected: The Power of Proportional Reasoning to Understand Mathematics Concepts, Grades 6–8

Carmen Whitman



It's All Connected: The Power of Representation to Build Algebraic Reasoning, Grades 6–9

Frances Van Dyke



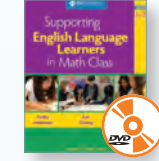
Number Talks: Helping Children Build Mental Math and Computation Strategies, Grades K–5 A Multimedia Professional Learning Resource

Sherry Parrish



Supporting English Language Learners in Math Class, Grades 6–8

Kathy Melanese, Luz Chung, and Cheryl Forbes



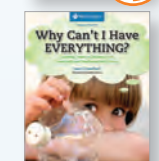
Teaching Preschool and Kindergarten Math: Ideas, Lessons, and Videos for Building Foundations in Math, A Multimedia Professional Learning Resource, Grades PreK–K

Ann Carlyle and Brenda Mercado

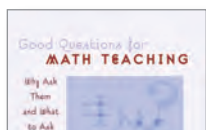


Why Can't I Have Everything? Teaching Today's Children to Be Financially and Mathematically Savvy, Grades PreK–2

Jane Crawford



Math Talk is a collection of professional development resources and programs created to help teachers encourage and leverage classroom communication to boost math learning. By encouraging students to “talk math,” teachers gain insight into students’ understanding of critical math concepts. Students benefit from learning to reason more deeply, using accurate math language, and building stronger math memory.



Good Questions for Math Teaching: Why Ask Them and What to Ask Series

Do you think it makes sense to split a day into twenty-four hours? Would another number have been a better choice? “Good questions” promote students’ mathematical thinking and understanding. These best-selling books offer a wealth of sample questions and guidance on how to create your own good questions.

Grades K–6

Peter Sullivan and Pat Lilburn

ISBN: 978-0-941355-51-3 Grades K–6 112 pages >> \$27.95

Grades 5–8

Lainie Schuster and Nancy Canavan Anderson

ISBN: 978-0-941355-69-8 Grades 5–8 208 pages >> \$27.95

Good Questions: Complete Set of 2 Books

ISBN: 978-0-941355-94-0 \$47.52

How to Assess While You Teach Math: Formative Assessment Practices and Lessons, Grades K–2

Dana Islas

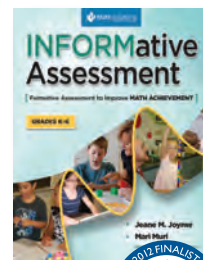
ISBN: 978-1-935099-17-8 Grades K–2 xxx pages >> \$61.95

Teaching Preschool and Kindergarten Math: Ideas, Lessons, and Videos for Building Foundations in Math, A Multimedia Professional Learning Resource, Grades PreK–K

Ann Carlyle and Brenda Mercado

See page 33 for a full description of this resource.

ISBN: 978-1-935099-44-4 Grades PreK–K 368 pages >> \$69.95

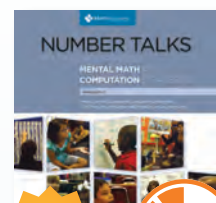


INFORMative Assessment: Formative Assessment to Improve Math Achievement, Grades K–6

Jeane M. Joyner and Mari Muri

What is formative assessment? Why do we do it and what do students gain? Formative assessment is not a one-time event. It is not the product or end result of a set of well-defined steps. Rather, formative assessment is a process identified in this resource as “INFORMative assessment” when it is a collection of strategies that engage teachers and students in becoming partners to support students’ learning. This resource uniquely presents a collaborative learning journey in which educators understand the INFORMative perspective, explore must-have practices, and discuss how to implement them.

ISBN: 978-1-935099-19-2 Grades K–6 336 pages >> \$40.95

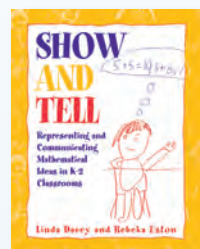


Number Talks: Helping Children Build Mental Math and Computation Strategies, Grades K–5 A Multimedia Professional Learning Resource

Sherry Parrish

See page 13 for a full description of this resource.

ISBN: 978-1-935099-11-6 Grades K–5 432 pages >> \$73.95



Show and Tell: Representing and Communicating Mathematical Ideas in K–2 Classrooms

Linda Dacey and Rebeka Eston

This useful and compelling book demonstrates how students deepen their mathematical ideas and understanding when they are encouraged to represent and communicate their thinking. Numerous classroom vignettes and reflective comments provide a model for how “show and tell” can enhance teaching and improve children’s learning.

Also see *Growing Mathematical Ideas in Kindergarten*, page 28.

ISBN: 978-0-941355-50-6 Grades K–2 240 pages >> \$31.95

Math Is Worth Talking About

Sensemaking in math often goes far beyond paper-and-pencil activities. Talking math with students from the earliest grades through advanced math studies in high school can help teachers quickly assess students' grasp of essential concepts, their reasoning skills, and their fluency in applying math concepts to specific problems and solutions.

Math Talk is also a way to encourage students who may not yet have strong writing skills to express their understanding of core math concepts and content. Students who may not be strong readers or writers may still be strong thinkers and by giving them the opportunity to "talk math," teachers open the door for individual growth and success. Further math helps students self assess and as they discuss math with peers, they learn from one another to correct misconceptions, apply mathematical thinking, and provide sound reasoning for their approaches to math problems.

Probing and open-ended questions are launching pads for sound math discussion and dialogue, and give teachers the opportunity to both assess students' understanding and to guide students toward the use of multiple representations of math concepts and operations. Talking math leads to mastering math across the K–12 grade span.



Talk in math class?

You bet!

MATH TALK™

Classroom Discussions in Math: A Teacher's Guide for Using Talk Moves to Support the Common Core and More, Grades K–6, Third Edition

Suzanne H. Chapin, Catherine O'Connor, and Nancy Canavan Anderson

This resource offers an award-winning, unparalleled look at the significant role that classroom discussions can play in teaching mathematics and deepening students' mathematical understanding and learning. Based on a four-year research project funded by the U.S. Department of Education, this resource is divided into three sections:

- Section I: Getting Started: Mathematics Learning with Classroom Discussions
- Section II: The Mathematics: What Do We Talk About?
- Section III: Implementing Classroom Discussions

This multimedia third edition offers 46 video clips from every grade, kindergarten through sixth, showing students and teachers engaged in successful classroom discussions.

ISBN: 978-1-935099-56-7 Grades K–6 312 pages >> \$71.95

Classroom Discussions in Math: A Facilitator's Guide to Support Professional Learning of Discourse and the Common Core, Grades K–6

Nancy Canavan Anderson, Suzanne H. Chapin, and Catherine O'Connor

See page 32 for a full description of this resource.

ISBN: 978-1-935099-12-3 Grades K–6 240 pages >> \$149.95

Classroom Discussions Bundle

Includes *Classroom Discussions in Math: A Teacher's Guide for Using Talk Moves to Support the Common Core and More, Grades K–6, Third Edition* and *Classroom Discussions in Math: A Facilitator's Guide to Support Professional Learning of Discourse and the Common Core, Grades K–6*

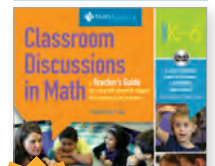
ISBN: 978-1-935099-30-7 Grades K–6 \$199.95 (save \$20)

Math Talk Bundles

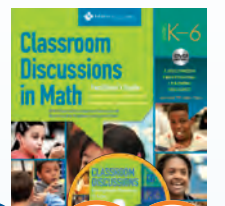
Save on Math Talk resources by purchasing our Big Talk, Small Talk, and Complete Math Talk Bundles. See page 31.

New Companion Multimedia Resource and Guide. See page 32.

NEW TITLE



BEST SELLER



NUMBER & OPERATIONS | FRACTIONS

Teaching Arithmetic® Series

Support mathematical understanding in your instructional program through this rich collection of easy-to-use teaching resources. Each book focuses on a specific arithmetic topic and offers a series of classroom-tested lessons addressing the three important aspects of arithmetic instruction—computation, number sense, and problem solving. The lessons include step-by-step directions, amount of time needed, materials required, classroom vignettes, samples of student work, reproducibles, and a discussion of the math underlying the lesson.

Teaching Arithmetic: Complete Set of 12 Books

ISBN: 978-0-941355-91-9 \$376.89



Lessons for First Grade

Stephanie Sheffield

ISBN: 978-0-941355-34-6 Grade 1 176 pages >> \$36.95

Lessons for Introducing Place Value, Grade 2

Maryann Wickett and Marilyn Burns

ISBN: 978-0-941355-45-2 Grade 2 200 pages >> \$36.95



Lessons for Extending Place Value, Grade 3

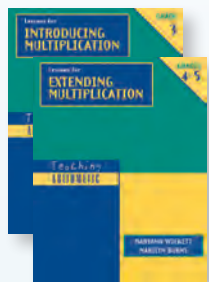
Maryann Wickett and Marilyn Burns

ISBN: 978-0-941355-57-5 Grade 3 256 pages >> \$36.95

Lessons for Addition and Subtraction, Grades 2–3

Bonnie Tank and Lynne Zollie

ISBN: 978-0-941355-32-2 Grades 2–3 200 pages >> \$36.95



Lessons for Introducing Multiplication, Grade 3

Marilyn Burns

ISBN: 978-0-941355-41-4 Grade 3 208 pages >> \$36.95

Lessons for Extending Multiplication, Grades 4–5

Maryann Wickett and Marilyn Burns

ISBN: 978-0-941355-31-5 Grades 4–5 224 pages >> \$36.95



Lessons for Introducing Division, Grades 3–4

Maryann Wickett, Susan Ohanian, and Marilyn Burns

ISBN: 978-0-941355-42-1 Grades 3–4 216 pages >> \$36.95

Lessons for Extending Division, Grades 4–5

Maryann Wickett and Marilyn Burns

ISBN: 978-0-941355-46-9 Grades 4–5 296 pages >> \$36.95



Lessons for Introducing Fractions, Grades 4–5

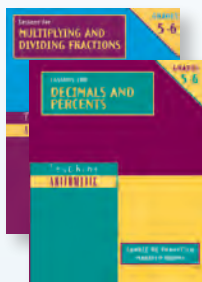
Marilyn Burns

ISBN: 978-0-941355-33-9 Grades 4–5 192 pages >> \$36.95

Lessons for Extending Fractions, Grade 5

Marilyn Burns

ISBN: 978-0-941355-43-8 Grade 5 232 pages >> \$36.95



Lessons for Multiplying and Dividing Fractions, Grades 5–6

Marilyn Burns

ISBN: 978-0-941355-64-3 Grades 5–6 200 pages >> \$36.95

Lessons for Decimals and Percents, Grades 5–6

Carrie De Francisco and Marilyn Burns

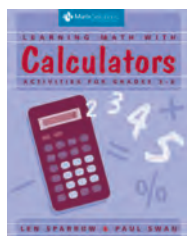
ISBN: 978-0-941355-44-5 Grades 5–6 232 pages >> \$36.95

Learning Math with Calculators: Activities for Grades 3–8

Len Sparrow and Paul Swan

This book helps guide teachers in the appropriate use of calculators. The first part addresses a broad range of questions and concerns raised by teachers. The second part consists of a collection of classroom-tested calculator activities that develop children's number sense and problem-solving ability.

ISBN: 978-0-941355-35-3 Grades 3–8 104 pages >> \$20.95



Beyond Pizzas & Pies: 10 Essential Strategies for Supporting Fraction Sense, Grades 3–5

Julie McNamara and Meghan M. Shaughnessy

Combining current research and practical strategies, this must-have book supports teachers in addressing students' common misconceptions about fractions as they guide their students in investigating and discussing fractions to expand and refine their understanding. In each chapter, the authors discuss one common dilemma that students have with fractions and present classroom strategies and activities for preventing and addressing it. Includes reproducibles.

ISBN: 978-1-935099-13-0 Grades 3–5 184 pages >> \$35.95

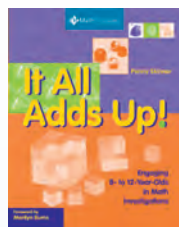


It All Adds Up! Engaging 8-to-12-Year-Olds in Math Investigations

Penny Skinner

Focusing on addition, subtraction, multiplication, and division in grades 3–6, this collection of lessons presents teaching strategies for engaging students in purposeful application of skills.

ISBN: 978-0-941355-24-7 Grades 3–6 152 pages >> \$21.95



The Marilyn Burns Fraction Kit®, Grades 4–6

Discover the single most effective manipulative material that Marilyn Burns uses for teaching fractions. Playing a prominent role in the three fraction books from the Teaching Arithmetic® series, the kit contains *The Fraction Kit Guide*®, Grades 4–6; 30 sets of eight colored 2-by-15-inch strips with student storage bags; 15 beginner and 15 advanced fraction dice; and a teacher set of magnetic strips.



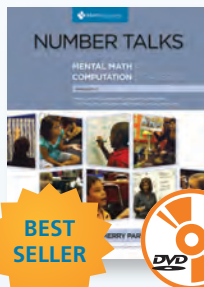
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| Complete Fraction Kit | Grades 4–6 | Item no. 514440 \$47.95 |
| Replacements: | | |
| 30 sets of 8 colored strips | | Item no. 514444 \$23.95 |
| 15 beginner fraction dice (red) | | Item no. 514442 \$13.95 |
| Teacher set of magnetic strips | | Item no. 514445 \$16.95 |

Number Talks: Helping Children Build Mental Math and Computation Strategies, Grades K–5 A Multimedia Professional Learning Resource

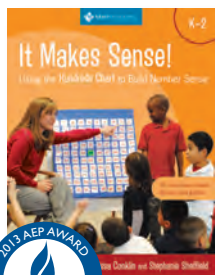
Sherry Parrish

See page 13 for a full description of this resource.

ISBN: 978-1-935099-11-6 Grades K–5 432 pages >> \$73.95



NUMBER SENSE



NEW! It Makes Sense! Using the Hundreds Chart to Build Number Sense, Grades K–2

Melissa Conklin and Stephanie Sheffield

From *Building a Wacky Hundreds Chart to Number Chart Bingo!*, the twenty classroom-tested lessons and games in this resource transform the hundreds chart from a poster on the classroom wall into a hands-on, interactive tool used by both teachers and students. The hundreds chart is one of the most important tools teachers can manipulate to help students think about our base ten number system and to build a mental model of the mathematical structure of it. Working with the hundreds chart helps learners develop the skills they need to become flexible and fluent problem solvers, and meet the requirements of many state standards, including the Common Core State Standards.

ISBN: 978-1-935099-37-6 Grades K–2 288 pages >> \$31.95



BEST SELLER

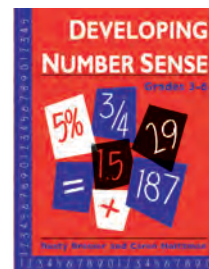


It Makes Sense! Using Ten-Frames to Build Number Sense, Grades K–2

Melissa Conklin

This resource includes 20 classroom-tested lessons that provide friendly, meaningful support for using ten-frames, one of the most important models teachers can use to help students anchor to the landmark number ten and develop all aspects of number sense. Three types of step-by-step lessons—routines, games, and problem-solving activities—provide students with opportunities to think, reason, and communicate about numbers. Teacher-support materials include strategies for differentiating instruction; assessment rubrics; examples of student thinking; technology tips; teacher reflections; and reproducible ten-frames, ten-frame cards, and computation cards.

ISBN: 978-1-935099-10-9 Grades K–2 300 pages >> \$31.95

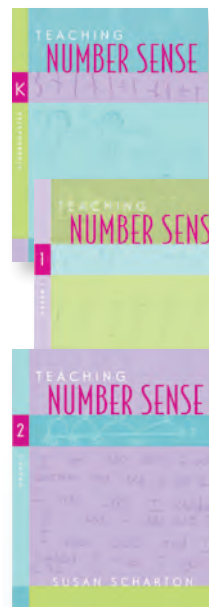


Developing Number Sense, Grades 3–6

Rusty Bresser and Caren Holtzman

Imaginative lessons give students practice with mental computation, basic operations, navigating the number system, and estimation. Content is crafted to show that number sense is not a specific skill, but encompasses a student's ability to think and reason flexibly, and make sound numerical judgments.

ISBN: 978-0-941355-23-0 Grades 3–6 192 pages >> \$28.95



Teaching Number Sense Series

The goals of this series are to help children to see numbers as tools, not barriers, to be able to reason their way to solutions should they forget a procedure, and to be comfortable using numbers to make sense of the world. Each lesson is organized in an accessible, easy-to-read format that includes a lesson overview, a list of needed materials, the time required to teach the lesson, step-by-step teaching directions, reproducibles, and a vignette of how the lesson actually unfolded in a classroom. Each lesson concludes with a list of assessment questions.

Kindergarten

Chris Confer

ISBN: 978-0-941355-58-2 Grade K 152 pages >> \$31.95

Grade 1

Chris Confer

ISBN: 978-0-941355-59-9 Grade 1 160 pages >> \$31.95

Grade 2

Susan Scharton

ISBN: 978-0-941355-60-5 Grade 2 200 pages >> \$31.95

Teaching Number Sense: Complete Set of 3 Books

ISBN: 978-0-941355-93-3 \$81.47



Also essential for college-level teacher education



Must-have resource for Common Core State Standards



Includes study guide resource

There's a Pattern in There

Two of the new Common Core practice standards for math are “look for and make use of structure” and “look for and express regularity in repeated reasoning.” When teachers help students use pattern recognition as a tool for solving mathematic challenges, they’re helping students develop a skill that will prepare them to tackle increasingly complex tasks in math, science, economics, statistics, engineering, and more.

Using patterns as a “tool” for solving problems, students can begin to look for regularities in the results of calculations and then use those patterns to explain and predict outcomes for similar problems. Talking with students about what they observe and listening to their responses will help teachers ask the guiding and probing questions that lead students to discover the power and predictability of patterns, so that they express them in precise mathematical language.

Number Talks: Helping Children Build Mental Math and Computation Strategies, Grades K–5, A Multimedia Professional Learning Resource

Sherry Parrish

This multimedia professional learning resource offers:

- More than 850 purposefully designed number talks
- DVD featuring 19 number talks filmed in actual classrooms

Watch

The accompanying DVD provides a visual platform for teachers to reflect on their current practices and target essential understandings for their readings.

Discuss

While the book may be used as an independent resource, it is also structured to provide a framework for collaborative learning groups or to provide professional development opportunities through grade-level teams, schools, or districts. Chapter 9 serves as a facilitator’s guide, providing guidance for use of the video clips by grade level along with discussion questions to support reflection and collegial conversations about number talks and student learning.

ISBN: 978-1-935099-11-6 Grades K–5 \$73.95



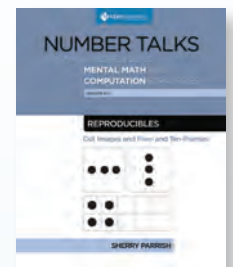
Number Talks: Reproducible Dot Images and Five- and Ten-Frames (Download only)

Now the K–2 *Dot Images and Five- and Ten-Frames* from Chapter 4 of the best-selling Number Talks resource are in a user-friendly, reproducible format! This downloadable file contains over 250 reproducibles for immediate use.

Number Talks Reproducibles:

ISBN: 978-1-935099-47-5 \$29.95

Downloadable products are non-refundable and non-returnable.



Number Talks Bundle

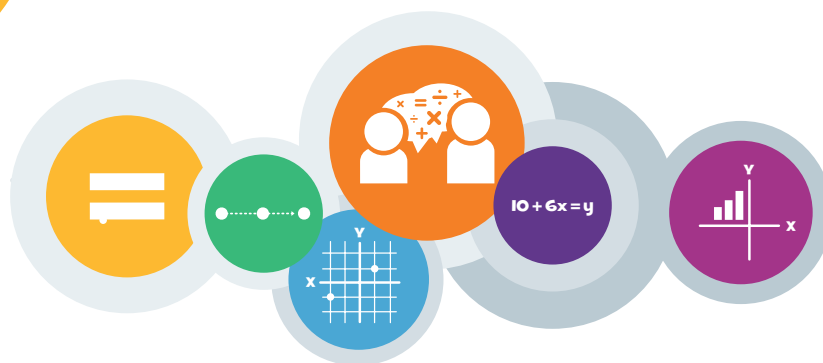
Sherry Parrish

Purchase both Number Talks resources together and enter **BNLNT** in the cart to receive an additional 20% off.

ISBN: 978-1-935099-11-6 Grades K–5 280 pages >> \$83.12



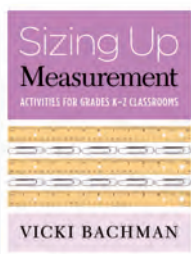
MEASUREMENT



Focus: A CCSS Priority

The new Common Core State Standards in Mathematics emphasize the importance and value of focus in the math curriculum. The standards encourage educators to focus instruction most strongly where the standards themselves focus. The shift means that rather than covering a wide range of mathematics content and practices, the emphasis is on targeting instruction on the knowledge and skills that research indicates are essential for college and career readiness and the opportunities for postsecondary success.

This intentional focus works to make practice standards achievable for students and helps to connect content and practice. Changing instruction to achieve focus often requires both new teaching materials and resources, along with ongoing professional development to help teachers make the required shifts in classroom practice, along with growing levels of content mastery for teachers themselves.



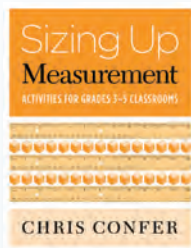
Sizing Up Measurement Series

In this series, expert teachers share a wealth of classroom-tested lessons that focus on essential measurement concepts in a problem-solving context, as well as connect to other strands of the math curriculum and other disciplines, such as literature, social studies, and science. Each lesson is organized in an accessible, easy-to-use format that includes an overview, a list of materials, a vocabulary list, step-by-step teaching directions, and reproducibles.

Activities for Grades K–2 Classrooms

Vicki Bachman

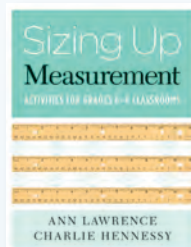
ISBN: 978-0-941355-79-7 Grades K–2 192 pages >> \$39.95



Activities for Grades 3–5 Classrooms

Chris Confer

ISBN: 978-0-941355-80-3 Grades 3–5 344 pages >> \$39.95



Activities for Grades 6–8 Classrooms

Ann Lawrence and Charlie Hennessy

ISBN: 978-0-941355-81-0 Grades 6–8 280 pages >> \$39.95

Sizing Up Measurement: Complete Set of 3 Books

ISBN: 978-0-941355-97-1 \$101.87

Math By All Means® Series

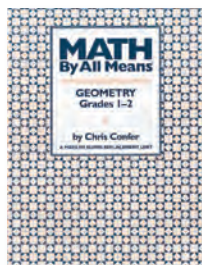
Each of these resources provides teachers with cohesive, classroom-tested lessons specially structured so that all students—including those with limited experience as well as those who need a challenge—can successfully perform. Each book is organized into four main areas: “Whole-Class Lessons,” “Menu Activities,” “Assessments,” and “Homework.” Each includes reproducibles.

Geometry, Grades 1–2

Chris Confer

This unit helps teachers develop students’ understanding of the properties of shapes. Lessons incorporate children’s literature, explore quilt designs, and use manipulative materials to help students investigate how shapes are related to one another, including what happens when shapes are combined or divided.

ISBN: 978-0-941355-08-7 Grades 1–2 200 pages >> \$31.95

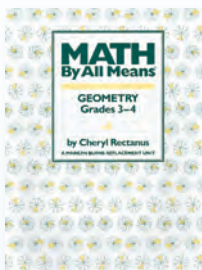


Geometry, Grades 3–4

Cheryl Rectanus

The lessons in this book actively involve students in exploring geometric ideas through hands-on investigations with two- and three-dimensional shapes. Students also develop greater proficiency in logic, numbers, and measurement.

ISBN: 978-0-941355-10-0 Grades 3–4 160 pages >> \$31.95

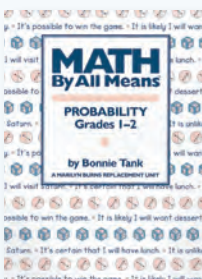


Probability, Grades 1–2

Bonnie Tank

Through a variety of games and investigations using dice, cards, and spinners, students make predictions, collect data, and reflect on results. They also develop number sense and reinforce their computation skills. In the process, students learn what makes games fair or unfair and how to tell if they are based on strategy or chance.

ISBN: 978-0-941355-15-5 Grades 1–2 200 pages >> \$31.95

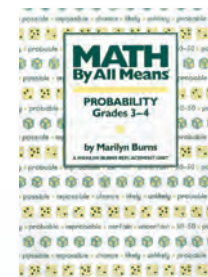


Probability, Grades 3–4

Marilyn Burns

Challenging games, experiments, and investigations provide the context for students to gather sample data, predict outcomes, and then test their predictions. Students soon discover that they can assess the likelihood of an event actually occurring.

ISBN: 978-0-941355-12-4 Grades 3–4 264 pages >> \$31.95

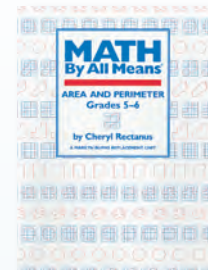


Area and Perimeter, Grades 5–6

Cheryl Rectanus

Hands-on investigations with regular and irregular shapes help students go beyond learning the traditional formulas for finding area and perimeter. Lessons use color tiles, string, rulers, and measuring tapes.

ISBN: 978-0-941355-18-6 Grades 5–6 208 pages >> \$31.95

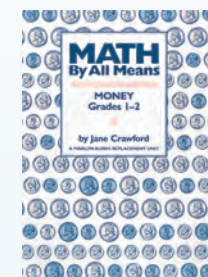


Math By All Means®: Money, Grades 1–2

Jane Crawford

Give students in-depth experience with identifying coins and their values, counting money, and applying their learning to problem-solving situations by using this resource’s more than 30 lessons. Extensive references to children’s literature, along with engaging games and activities, help strengthen children’s number sense and computation skills.

ISBN: 978-0-941355-17-9 Grades 1–2 192 pages >> \$31.95



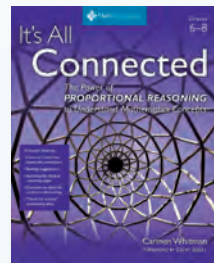


NEW! It's All Connected: The Power of Representation to Build Algebraic Reasoning, Grades 6–9

Frances Van Dyke

See page 4 for a full description of this resource.

ISBN: 978-1-935099-42-0 Grades 6–9 208 pages >> \$36.95

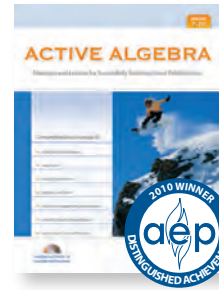


It's All Connected: The Power of Proportional Reasoning to Understand Mathematics Concepts, Grades 6–8

Carmen Whitman

This in-demand collection of lessons explores proportionality, proportional relationships, and proportional reasoning, acknowledging that the ability to reason proportionally is crucial in the middle school mathematics curriculum. The lessons support teachers and students in thinking of proportionality as the big idea that connects across all strands. Each lesson features Common Core State Standards Correlations; engaging themes, from “Zapping Zombies” to “Downloading Music”; carefully detailed teaching suggestions; three sets of question types to ask students as they progress through lessons—questions for struggling students, students on task, and students who need extensions; reproducible student recording pages; and “Check for Success” assessment ideas.

ISBN: 978-1-935099-24-6 Grades 6–8 304 pages >> \$36.95

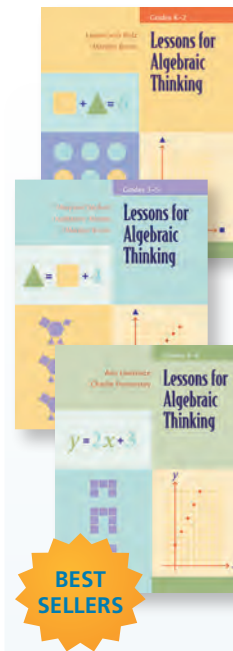


Active Algebra: Strategies and Lessons for Successfully Teaching Linear Relationships, Grades 7–10

Dan Brutlag

Based on recent research on the adolescent brain, *Active Algebra* presents a living, working example of how teachers can use active learning techniques to make linear relationships more meaningful for students. In addition to the 10 reproducible, sequenced lessons, this award-winning resource includes seven chapters of guidance in teaching algebra. It offers comprehensive coverage of active learning strategies, mental math, student presentations, graphing calculators, classroom management and discipline, authentic classroom experiences, and brain research and mathematics. It also provides connections to NCTM's *Principles and Standards for School Mathematics*.

ISBN: 978-1-935099-05-5 Grades 7–10 192 pages >> \$39.95



Lessons for Algebraic Thinking® Series

Algebra, once a topic relegated to high school, is now one of the top priorities for elementary and middle school. Lessons in this series build on instruction teachers already provide in arithmetic. Each classroom-tested lesson features an overview, vocabulary used, time needed, materials required, and a vignette of how the lesson actually unfolded in a classroom. Books also include authentic samples of student work, an abundance of reproducibles, and key ideas to help teachers understand the math being taught.

Grades K–2

Leyani von Rotz and Marilyn Burns

ISBN: 978-0-941355-47-6 Grades K–2 280 pages >> \$37.95

Grades 3–5

Maryann Wickett, Katharine Kharas, and Marilyn Burns

ISBN: 978-0-941355-48-3 Grades 3–5 336 pages >> \$37.95

Grades 6–8

Ann Lawrence and Charlie Hennessey

ISBN: 978-0-941355-49-0 Grades 6–8 280 pages >> \$37.95

Lessons for Algebraic Thinking: Complete Set of 3 Books

ISBN: 978-0-941355-89-6 \$96.77



Beyond Pizzas and Pies

Julie McNamara and Meghan M. Shaughnessy

Beyond Pizzas and Pies is smart, accessible, and usable. McNamara and Shaughnessy assemble the key resources and insights teachers need to help students develop robust understanding of fractions. Clear explanations of the specific mathematical ideas and research on key challenges for learners are coordinated with focused instructional tasks and detailed guidance for their use in the classroom. The tasks develop complex mathematical proficiency by combining work on concepts with skill development and the ability to use representations and to reason about fractions.

– Deborah Loewenberg Ball,

William H. Payne Collegiate Professor, University of Michigan



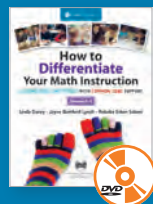
Faster Isn't Smarter

Cathy L. Seeley

Through her wit and wisdom, and her life experiences, Cathy helps us to reach within ourselves to better understand our mission as teachers, parents, and leaders in our schools.

This is a must-read for us all.

– Timothy Kanold, *President of the National Council of Supervisors of Mathematics*



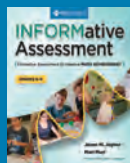
How to Differentiate Your Math Instruction: Lessons, Ideas, and Videos with Common Core Support

Linda Dacey, Jayne Bamford Lynch, Rebeka Eston Salemi

A Thoughtful, Practical, and Provocative Resource!

Differentiating instruction to meet the needs of a wide range of children is a challenge we all face. Through the use of real examples, video clips, teacher reflections, and practical tips, these very knowledgeable authors show classroom teachers how to make strides toward what often feels like an impossible goal.

– Lucy West, *founder, Metamorphosis Teaching Learning Communities and author, Content-Focused Coaching: Transforming Mathematics Lessons*

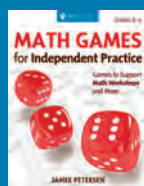


INFORMative Assessment: Formative Assessment to Improve Math Achievement

Jeane M. Joyner and Mari Muri

“Understanding the use and impact of assessments is challenging for many. *INFORMative Assessment* captures the elusive nature and importance of varied assessments beautifully, including the link to curriculum and instruction and the critical role of formative assessment. As schools and school districts transition to the Common Core State Standards and their related assessments, this amazing resource will become an important “use every day” reference!”

– Francis (Skip) Fennell, *L. Stanley Bowlsbey, Professor of Education and Graduate and Professional Studies, McDaniel College, Westminster, Maryland, Project Director, Elementary Mathematics Specialists and Teacher Leaders Project, Past President, National Council of Teachers of Mathematics*



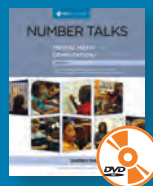
Math Games for Independent Practice

Jamee Petersen

Jamee Petersen has created a fantastic resource of math games. These super-engaging games invite opportunities for deep thinking and ongoing practice. They are an ideal addition to the math workshop. Teachers will love this book because it is so useful and mathematically rich; students will love the games because they are fun!

– Maggie Siena, *author,*

From Reading to Math: How Best Practices in Literacy Can Make You a Better Math Teacher, Grades K–5

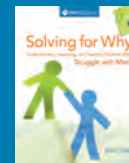


Number Talks: Helping Children Build Mental Math and Computation Strategies

Sherry Parrish

Sherry Parrish outlines the very best way to teach math to young children and gives educators access to the ideas and methods that they will need. This book is a valuable resource for anyone who cares about children's mathematical development.

– Jo Boaler, *professor, Stanford University, and author of What's Math Got to Do With It? Helping Children Learn to Love Their Least Favorite Subject*



Solving for Why: Understanding, Assessing, and Teaching Students Who Struggle with Math

John Tapper

My prediction is that *Solving for Why* will become a much-referenced guide in how to authentically address the complex mathematical needs of our students. As a math coach, a question I hear daily is, “How do we know what we need to know and then what do we do about it?” John Tapper provides approaches that are explicit and clear. The result is a warm and, sometimes, humorous way to begin to find our own answers to many of our most persistent questions about mathematical thinking.”

– Veronica May Sampson, *Math coach, Windham Southeast Supervisory Union, Brattleboro, Vermont*



Teaching Preschool & Kindergarten Math

Ann Carlyle and Brenda Mercado

“A true confession: teaching preschool and kindergarten has always been a terrifying thought for me. I began my teaching career by teaching ninth graders and, over the years, moved down the grades as I became curious about misconceptions that students showed. When I got to second grade, I knew I was on the edge of my comfort zone. And while from time to time I'd visit a kindergarten class and teach a math lesson, I never felt completely comfortable or successful. If I had had access to Ann and Brenda's book, I might have felt differently. Their delight in and commitment to teaching young children shine throughout their resource. It's inspiring.”

– Marilyn Burns, *Founder, Math Solutions*



Why Can't I Have Everything?

Jamee Petersen

Why Can't I Have Everything? is so timely. Children are becoming more and more aware of the importance of money in their world. As a mother of two preschoolers and as a math specialist, I highly recommend this thoughtful collection of lessons, children's literature suggestions, and assessments. Jane's knowledge of young mathematicians has resulted in another book that is right on the money.

– Beth Terry, *parent and math specialist, Alexandria City Public Schools, Virginia*



#1

Make sense of problems and persevere in solving them

Expected Outcome

Students understand what they are being asked and consider multiple strategies and tools to analyze and solve problems.

#2

Reason abstractly and quantitatively

Expected Outcome

Students use mathematics in the abstract and are able to symbolically represent quantities and their relationships—understanding the underlying meaning, not just how to compute.

#4

Model with mathematics

Expected Outcome

Students apply the mathematics they know to solve problems using tools such as diagrams, tables, graphs, and formulas to represent and analyze relationships and draw conclusions.

#3

Construct viable arguments and critique the reasoning of others

Expected Outcome

Individually or in groups, students articulate and defend their ideas and analyze the reasoning of others.

Smart Strategies.

Watch Math Solutions "Explain It To Me" video series on The Common Core State Standards



Visit: MathSolutions.com/ExplainItToMe



#6

Attend to precision

Expected Outcome

Students are precise in their mathematical communication, use of terminology, and are careful about expressing numerical answers with a degree of precision appropriate for the problem context.

#5

Use appropriate tools strategically

Expected Outcome

Students consider available tools—including concrete models and technology—and use them strategically to solve mathematical problems.

#8

Look for and express regularity in repeated reasoning

Expected Outcome

Students notice repetitions in calculations and look for general methods and for shortcuts.

#7

Look for and make use of structure

Expected Outcome

Students look for and make use of pattern and structure in learning mathematics and solving problems.

Learn more about how Math Solutions can help with your transition to the Common Core.

Visit: MathSolutions.com/CommonCore

Successful Transitions.

Math Solutions Courses and Coaching

Math Solutions will help you meet your goals with targeted course offerings at special pricing that are available immediately or with customized courses developed in partnership with you, addressing your school or districts unique challenges and needs.

Targeted Common Core Offerings:

Standards for Mathematical Practices: Quick Start Series™:

Math Solutions Common Core Quick Start Series introduces educators to the central ideas embodied in the Standards for Mathematical Practice.

Course 1: Making Sense of Math A Focus on Reasoning and Discourse

Course 2: Mathematical Thinking A Focus on Representation and Procedural Fluency

Course 3: Problem Solving Developing Disposition, Competence, and Confidence

Deepen Understanding:

Unpacking Common Core Content—Priority Standards

Build grade-level understanding of priority domains and plan effective instruction that meets the level of rigor called for in the Common Core. In this multi-day course, we unpack the Common Core content and integrate the Mathematical Practices in an



engaging and relevant hands-on exploration of the mathematics standards.

Grades K-2: Mathematics Number and Operations

Grades 3-6: Operations and Fractions,

Grades 6-8: Ratios and Proportional Thinking,

Differentiating Common Core Mathematics Instruction

This course helps teachers understand what it means to support all students by differentiating three aspects of the math curriculum—content, process, and product.

Leadership Course: Ensuring a Successful Transition

For more information on Common Core courses, visit mathsolutions.com/ccss-courses

Coaching to Sustain Change: Theory into Practice

Group Coaching: The fastest way to synchronize your team

Side-By-Side, Job-Embedded Coaching: Deepen & Sustain Professional Learning

ePD: Coaching, Webinars, Videos and Ask Me Now Virtual Office hours.

Maximize Formative Assessment:

Math Reasoning Inventory.

Math Solutions offers courses for teachers and learners on MRI, a Free, online formative assessment tool developed by Marilyn Burns and a team of Math Solutions master teachers. MRI focuses on middle school students' understanding of whole number, fractions, and decimals—key areas related to preparing for algebra.

For more information on MRI courses, visit mathreasoninginventory.com

Targeted Non-Common Core Offerings:

Number Sense

This course helps teachers gain an understanding of what number sense is, why it's important, and what strategies they can use to help promote their students' number sense.

Understanding Ratios and Proportional Relationships

This course explores proportionality, proportional relationships, and proportional reasoning, acknowledging that the ability to reason proportionally is at the forefront of the middle school mathematics curriculum.

Differentiating Instruction

This course helps teachers understand what it means to support all students by differentiating three aspects of the math curriculum—content, process, and product.

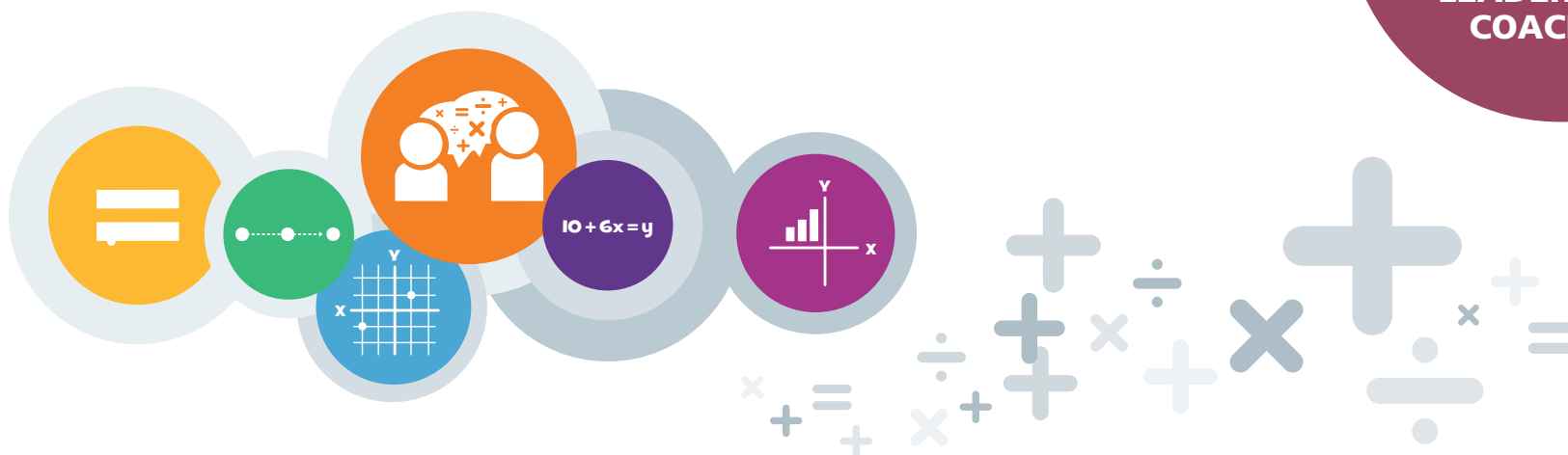
Teaching Math Through Problem Solving

This course provides teachers with a firsthand experience of learning mathematics through problems solving and introduces approaches and strategies they can use to help students build new mathematical knowledge and use a range of problem-solving strategies.

Multi-Day Institute—About Teaching the Math

Fundamentally change the way teachers think about math and how they teach their students. In this relevant and engaging institute, teachers deepen their own content knowledge while learning how to develop students' abilities to think and reason, and deepen students' number sense, computation, and problem solving skills.

For more information on standard courses, visit mathsolutions.com/courses



Faster Isn't Smarter: Messages About Math, Teaching, and Learning in the 21st Century

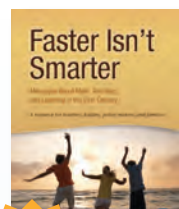
Cathy L. Seeley

Based on Cathy L. Seeley's award-winning NCTM President's Messages and including dozens of new messages, this K–12 resource offers straight talk and common sense about some of today's most important issues in education. With topics ranging from the impact of rising expectations and the trap of timed tests to the role of technology and the phenomenon of jumping on bandwagons, this book provides a base for lively discussion among elementary, middle, and high school teachers; leaders; policy makers; and families.

ISBN: 978-1-935099-03-1

All levels

272 pages >> \$28.95



The Math Coach Field Guide: Charting Your Course

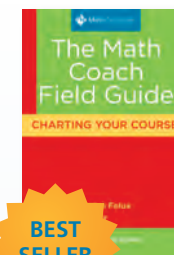
edited by Carolyn Felux and Paula Snowdy

The role of a math coach is demanding and often undefined. In this edited collection, veteran math coaches share their expertise, providing glimpses into the unique trials, false starts, and successes they have faced in their positions. The authors ask and answer such questions as "What makes an effective math coach" and "What pitfalls do math coaches encounter and what can they do about them?"

ISBN: 978-0-941355-72-8

All levels

144 pages >> \$23.95



Leading the Way: Principals and Superintendents Look at Math Instruction

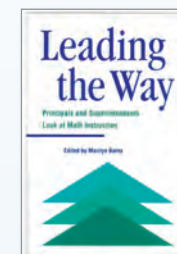
edited by Marilyn Burns

This collection of essays provides a firsthand glimpse into the challenges administrators face and the efforts they've made to promote the best in mathematics education. This book is a must for superintendents, principals, math coordinators, teacher leaders, math coaches, and other administrators who are supporting high-quality, standards-based mathematics instruction in their schools and districts.

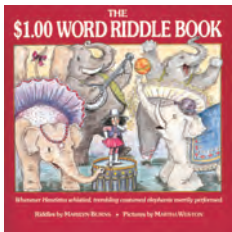
ISBN: 978-0-941355-21-6

K–6 admin.

128 pages >> \$21.95



CONNECTING MATH & LITERACY: CHILDREN'S BOOKS

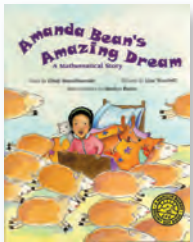


The \$1.00 Word Riddle Book

story by Marilyn Burns, illustrations by Martha Weston

Which day of the week is a \$1.00 word? And which U.S. coin is a \$1.00 word, even though it's not really worth a dollar? Find out the answers to these and dozens more riddles in this unique and delightfully illustrated book. Each riddle calls for searching for words, practicing addition, and thinking mathematically. Featured in *Math and Literature, Grades 4–6*.

ISBN: 978-0-941355-02-5 Grades 2–5 48 pages >> \$13.95



Amanda Bean's Amazing Dream

story by Cindy Neuschwander, illustrations by Liza Woodruff

An amazing dream convinces Amanda Bean of the powers of multiplication. Featured in *Teaching Arithmetic: Lessons for Introducing Multiplication, Grade 3* (see page 10).

ISBN: 978-0-590-30012-4 Grade 3 36 pages >> \$17.99

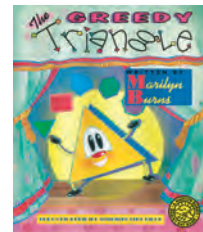


A Cloak for the Dreamer

story by Aileen Friedman, illustrations by Kim Howard

The tailor's youngest son makes a cloak that doesn't keep out the wind and rain, but his father finds a geometric way to fix the problem. Featured in *Math and Literature, Grades 2–3* and *Math By All Means: Geometry, Grades 1–2* (see pages 15 and 23, respectively).

ISBN: 978-0-590-48987-4 Grades 1–3 36 pages >> \$17.99



The Greedy Triangle

story by Marilyn Burns, illustrations by Gordon Silveria

After many trips to the shapeshifter, the triangle learns that being a triangle is best after all. Featured in *Math and Literature, Grades 2–3*; *Math and Literature, Grades 6–8*; and *Math By All Means: Geometry, Grades 3–4* (see pages 15 and 23).

ISBN: 978-0-590-48991-1 Grades 2–8 36 pages >> \$17.99



The King's Commissioners

story by Aileen Friedman, illustrations by Susan Guevara

Royal Advisors and the Princess show the King how to keep track of how many commissioners he has. Featured in *Math and Literature, Grades 2–3* and *Teaching Arithmetic: Lessons for Introducing Place Value, Grade 2* (see pages 10 and 23).

ISBN: 978-0-590-48989-8 Grades 2–3 36 pages >> \$17.99



Spaghetti and Meatballs for All! A Mathematical Story

story by Marilyn Burns, illustrations by Debbie Tilley

Area and perimeter come alive as Mr. and Mrs. Comfort make room for everyone at their family reunion. Featured in *Math and Literature, Grades 6–8* and *Math By All Means: Area and Perimeter, Grades 5–6* (see pages 15 and 23).

ISBN: 978-0-590-94459-5 Grades 5–8 36 pages >> \$17.99

From Reading to Math: How Best Practices in Literacy Can Make You a Better Math Teacher, Grades K–5

Maggie Siena

Are your students engaged and motivated to read and write but hesitant during math instruction? Do you want your students to be as excited about math as they are about literacy? This unique resource explores how best practices for teaching reading and writing can help you become a better math teacher. Drawing on the work of such educators as Richard Allington, Carl Anderson, Marilyn Burns, Cathy Fosnot, Stephanie Harvey, Heidi Hayes Jacobs, Ellin Keene, and Diane Snowball, the author describes strategies that work in teaching literacy and how to successfully implement them in the math class.

ISBN: 978-1-935099-04-8 Grades K–5 168 pages >> \$26.95



Math and Literature Series

From *Quack and Count* to *Harry Potter*, the imaginative ideas in children's books come to life in math lessons through this unique series. Each resource provides more than 20 classroom-tested lessons that engage children in mathematical problem solving and reasoning. Each lesson features an overview, materials required, and a vignette of how the lesson actually unfolded in a classroom.

Grades K–1

Marilyn Burns and Stephanie Sheffield

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Grades 2–3

Marilyn Burns and Stephanie Sheffield

ISBN: 978-0-941355-67-4 Grades 2–3 160 pages >> \$31.95

Grades 4–6, Second Edition

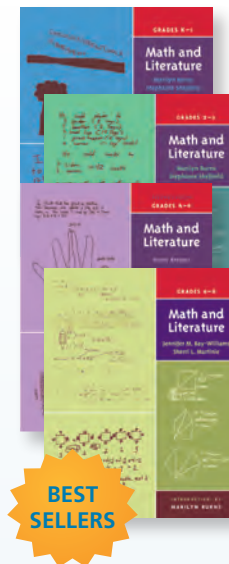
Rusty Bresser

ISBN: 978-0-941355-68-1 Grades 4–6 240 pages >> \$31.95

Grades 6–8

Jennifer M. Bay-Williams and Sherri L. Martinie

ISBN: 978-0-941355-63-6 Grades 6–8 184 pages >> \$31.95



Math and Nonfiction Series

From *The Wing on a Flea* to *If the World Were a Village*, the curiosities of nonfiction children's books invigorate math lessons through this innovative series. Ideal for using students' natural quest for knowledge as the basis for mathematical investigations, each lesson features an overview, materials required, and a vignette of how the lesson transpired in a real classroom. Books include authentic student work, reproducibles, and a special introduction by Marilyn Burns.

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Stephanie Sheffield and Kathleen Gallagher

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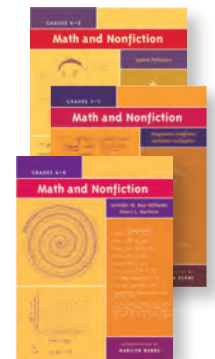
Grades 6–8

Jennifer M. Bay-Williams and Sherri L. Martinie

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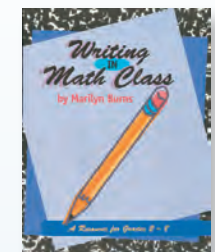
Writing & Math

Writing in Math Class: A Resource for Grades 2–8

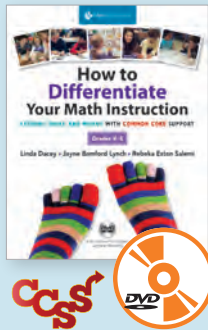
Marilyn Burns

How can writing help students think more deeply and clearly about mathematical ideas? Marilyn Burns shares numerous examples illustrating how students sort, clarify, and define their thinking through different types of writing—journal writing, solving math problems, explaining mathematical ideas, and linking creative writing to math. Includes assessment strategies, answers to frequently asked questions, and samples of authentic student work.

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NEW! How to Differentiate Your Math Instruction: Lessons, Ideas and Videos with Common Core Support, Grades K–5

How can teachers meet the growing diversity of learning needs in their classrooms? Furthermore, how do teachers meet this challenge in the midst of increasing pressures to master specified content? *How to Differentiate Your Math Instruction: Lessons, Ideas, and Videos with Common Core Support* shares classroom practices that help all students be successful, giving teachers the means to honor individual students and meet curricular outcomes simultaneously.

Linda Dacey, Jayne Bamford Lynch, Rebeka Eston Salemi

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Linda Dacey and Karen Gartland

ISBN: 978-1-935099-00-0 Grades 6–8 312 pages >> \$38.95

- Also essential for college-level teacher education
- Must-have resource for Common Core State Standards
- Includes study guide resource

Financial Literacy

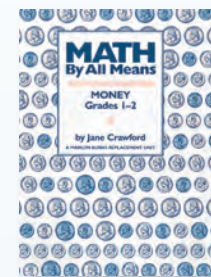


Why Can't I Have Everything? Teaching Today's Children to Be Financially and Mathematically Savvy, Grades PreK–2

Jane Crawford

In today's financial climate, it's more crucial than ever to equip children with monetary and economic sense. This timely resource features over 40 lessons categorized by seven important financial literacy themes for young learners. The lessons include literature connections, corresponding formative assessments, games, suggestions for differentiating instruction, ideas for parents, and alignments to the Common Core State Standards for Mathematics. In the appendices, you'll find reproducible letters for parents to go with the lessons, plus a final project that ties together all the lessons.

ISBN: 978-1-935099-25-3 Grades PreK–2 272 pages >> \$35.95

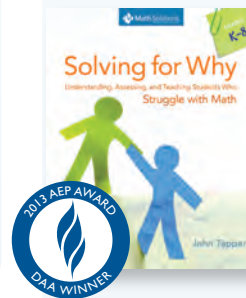


Math By All Means®: Money, Grades 1–2

Jane Crawford

Give students in-depth experience with identifying coins and their values, counting money, and applying their learning to problem-solving situations by using this resource's more than 30 lessons. Extensive references to children's literature, along with engaging games and activities, help strengthen children's number sense and computation skills.

ISBN: 978-0-941355-17-9 Grades 1–2 192 pages >> \$31.95



Solving for Why: Understanding, Assessing, and Teaching Students Who Struggle with Math, Grades K–8

John Tapper

Solving for Why offers educators the tools and guidance essential for successfully solving for why students struggle with mathematics. The step-by-step, RTI (Response to Intervention)—like approaches, focused on assessment and communication with students, help teachers gain insight into student understanding in a remarkably different way than recipe-type approaches that assume the same solution applies to learners with similar struggles.

ISBN: 978-1-935099-33-8 Grades K–8 256 pages >> \$36.95

Subtract Barriers to Math Understanding

The Common Core standards call for a more conceptual understanding of mathematics. By creating a learning environment that encourages discussion of mathematical concepts, all students can build comprehension and advance their verbal communication skills. For non-native speakers, it is especially valuable to summarize and synthesize the mathematics they are learning, to allow learners to increase their ability to build new vocabulary in formulating responses.

By removing the roadblocks, teachers can use verbal strategies to help English Language Learners think, talk, and solve math challenges. Try these following strategies in your classroom to turn challenges into learning development opportunities for English Language Learners:

- Repeating
- Rephrasing
- Offering prompts
- Using visual representations
- Clarifying language to make content accessible

Ultimately, developing understanding and verbal communication will aid all students throughout their academic careers.

ENGLISH
LANGUAGE
LEARNERS

Supporting English Language Learners in Math Class Series

Rusty Bresser, Kathy Melanese, and Christine Sphar

This lesson-based series gives teachers the essential tools for simultaneously meeting math content goals and language development goals. Teachers will get a wealth of strategies and activities for modifying their instruction as well as sentence frame structures and dozens of instant-use reproducibles.



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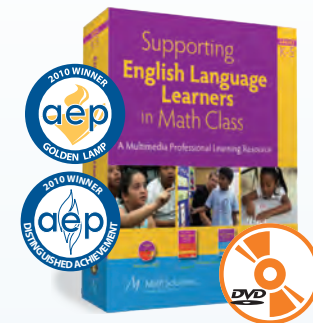
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ISBN: 978-0-941355-99-5 \$62.82

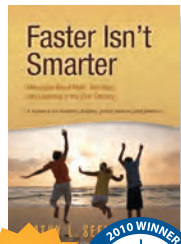


Also a great resource for
communicating in math class

*Supporting English Language Learners in Math Class:
A Multimedia Professional Learning Resource*

See page 33 for a full description.

MATH AT SCHOOL & AT HOME



BEST SELLER



Faster Isn't Smarter: Messages About Math, Teaching, and Learning in the 21st Century

Cathy L. Seeley

Based on Cathy L. Seeley's award-winning NCTM President's Messages and including dozens of new messages, this K–12 resource offers straight talk and common sense about some of today's most important issues in education. With topics ranging from the impact of rising expectations and the trap of timed tests to the role of technology and the phenomenon of jumping on bandwagons, this book provides a base for lively discussion among elementary, middle, and high school teachers; leaders; policy makers; and families.

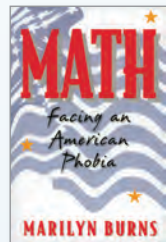
ISBN: 978-1-935099-03-1

All levels

272 pages >> \$28.95

Kindle and epub versions available.

Visit mathsolutions.com/FasterIsntSmarter for more information.



Math: Facing an American Phobia

Marilyn Burns

Challenging negative attitudes and delivering a positive message about what math can and should mean to all of us, this resource is both an entertaining and invaluable read. From "Talking Turkey About Arithmetic" to "Making Math Make Sense," the 13 chapters help everyone conquer their fear of math.

ISBN: 978-0-941355-19-3

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176 pages >> \$19.95



Why Can't I Have Everything? Teaching Today's Children to Be Financially and Mathematically Savvy, Grades PreK–2

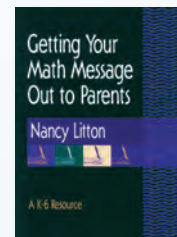
Jane Crawford

See page 24 for a full description of this resource.

ISBN: 978-1-935099-25-3

Grades PreK–2

272 pages >> \$35.95



Getting Your Math Message Out to Parents: A K–6 Resource

Nancy Litton

Tackle the tricky issue of bridging the communication gap between teachers, students, and their parents. This unique resource explores the various channels—newsletters, back-to-school-night presentations, homework, and more—through which teachers can communicate with parents about their children's math education.

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50 Problem-Solving Lessons: The Best from 10 Years of Math Solutions Newsletters, Grades 1–6

Marilyn Burns

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**BEST
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ISBN: 978-0-941355-16-2 Grades 1–6 192 pages >> \$28.95

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Requiring only 5 to 15 minutes to teach, these quick, engaging activities offer experiences in all of the content areas important to elementary mathematics: number, measurement, geometry, data analysis and probability, and algebra. Each resource of 27 classroom-tested lessons models how to develop several important math processes: problem solving, reasoning and proof, communication, connections, and representation. Each activity features a materials list, step-by-step teaching directions, a list of key questions to ask students during the lesson, a vignette of how the lesson actually unfolded in a classroom, and ideas for extending the activity throughout the year. Each book includes reproducibles.

Grades K–2

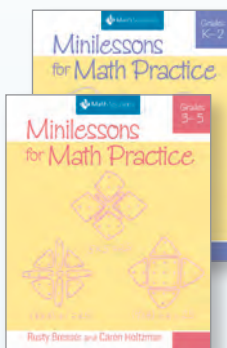
Rusty Bresser and Caren Holtzman

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Grades 3–5

Rusty Bresser and Caren Holtzman

ISBN: 978-0-941355-75-9 Grades 3–5 176 pages >> \$27.95



Minilessons for Math Practice: Complete Set of 2 Books

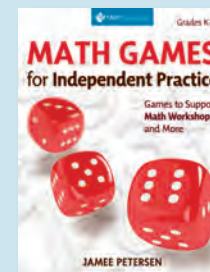
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NEW TITLE

NEW! Math Games for Independent Practice: Games to Support Math Workshops and More, Grades K-5

Jamee Peterson

This dynamic collection of more than 30 math games supports students' learning of number in math workshops. Each game uses the workshop structure presented in the all-time favorite book, *From Reading to Math: How Best Practices in Literacy Can Make You a Better Math Teacher*. Games include reproducibles and are correlated to the Common Core State Standards.



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Marilyn Burns and Bonnie Tank

ISBN: 978-0-941355-01-8 Grades 1–3 200 pages >> \$28.95

Grades 3–6

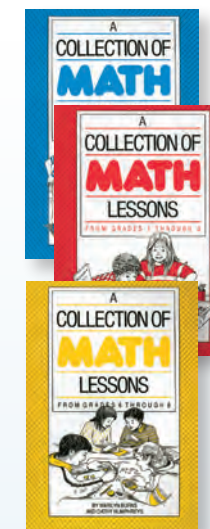
Marilyn Burns

ISBN: 978-0-941355-00-1 Grades 3–6 184 pages >> \$28.95

Grades 6–8

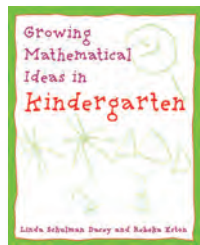
Marilyn Burns and Cathy Humphreys

ISBN: 978-0-941355-03-2 Grades 6–8 192 pages >> \$28.95



A Month-to-Month Guide Series

Planning math instruction is a demanding aspect of teaching. Teachers need to have an overall sense of the curriculum for the whole year, of what's going to be taught each month, and of what specifically to teach each day. The guides in this series make it easy to plan all three. In these all-in-one volumes, teachers get a wealth of ideas, organized by month, for the entire school year, covering everything from learning environment and mathematics insight to investigations, literature-based activities, menus, routines, games, mathematics writing, assessment, and parent communication. The books include reproducibles.



Growing Mathematical Ideas in Kindergarten

Linda Schulman Dacey and Rebeka Eston

Recognizing the special set of challenges that kindergarten teachers face, this resource presents a vision of a kindergarten classroom that nurtures the growth of all students' mathematical understanding.

Also see *Show and Tell*, page 8.

ISBN: 978-0-941355-22-3 Grade K 256 pages >> \$31.95



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Vicki Bachman

ISBN: 978-0-941355-54-4 Grade 1 320 pages >> \$38.95

Second-Grade Math

Nancy Litton

ISBN: 978-0-941355-55-1 Grade 2 248 pages >> \$38.95

Third-Grade Math

Suzy Ronfeldt

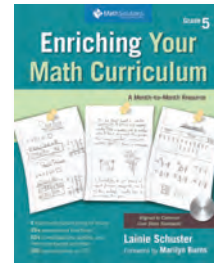
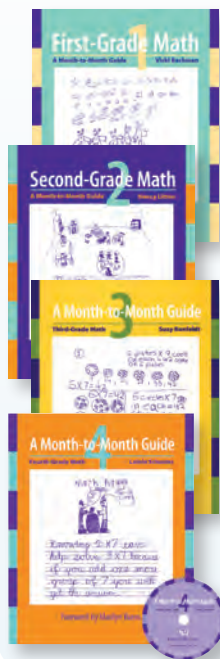
ISBN: 978-0-941355-56-8 Grade 3 360 pages >> \$38.95

Fourth-Grade Math

Lainie Schuster

To offer an easy alternative to photocopying, we've included a CD containing this book's 100-plus reproducible activities as PDFs.

ISBN: 978-0-941355-83-4 Grade 4 512 pages >> \$38.95



Enriching Your Math Curriculum, Grade 5

Lainie Schuster

A 2010 addition to our Month-to-Month Guide series, this volume shares hundreds of practices and routines to support teachers as they prepare and present a meaningful year of mathematics instruction for fifth graders. The book's activities, lessons, and narration can be easily adapted to fit the particular needs of students or the requirements of prescribed curricula. The resource also includes games, tasks that provide opportunities for mathematics writing, suggestions for communicating with parents, and assessment practices. An accompanying CD provides over 100 printable reproducibles.

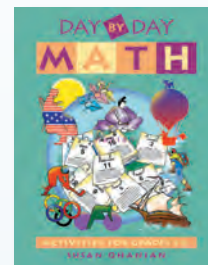
ISBN: 978-1-935099-02-4 Grade 5 441 pages >> \$52.95

Month-to-Month Curriculum Guides, Grades 4 and 5: Set of 2 Books

ISBN: 978-1-935099-21-5 \$78.12

Month-to-Month Curriculum Guides: Complete Set of 5 Books

ISBN: 978-1-935099-23-9 \$177.44

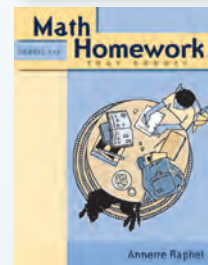


Day-by-Day Math: Activities for Grades 3-6

Susan Ohanian

This resource describes opportunities for collecting, organizing, and graphing data, relating to monetary issues, and thinking about areas of measurement and is ideal for integrating math with other areas of the curriculum and relating math to the real world.

ISBN: 978-0-941355-28-5 Grades 3-6 184 pages >> \$25.95



Math Homework That Counts, Grades 4-6

Annette Raphel

What constitutes meaningful math homework? This resource's many examples and activities show how homework can reinforce skills, prepare students for future classroom lessons, extend their mathematical knowledge, and inspire creativity.

ISBN: 978-0-941355-27-8 Grades 4-6 104 pages >> \$18.95

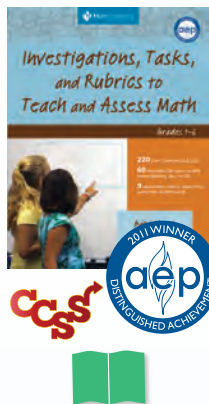
Coaching Coaches: Quick Tips

Whether you're a new or veteran math coach, the job can be both challenging and rewarding. And now, with schools and districts making the transition to new standards in math, the need for coaching is intensified. Here are some quick tips that can help you help your teachers in their everyday instructional practice:

1. **Meet them where they are**—and that's in the classroom. Often, it can help to be in the classroom with a teacher to observe, support, model, and get a real feel for the students your teacher interacts with on a daily basis.
2. **Provide resources.** Often, teachers will make terrific use of resources, when they know where to find them. Sometimes coaches can “open doors” simply by providing an interesting article or a new book.
3. **Share your own experiences**, but only when they address a teacher's questions or needs. Coaching is about that teacher so when it's helpful or illustrative, share your classroom experiences as a way to say “This is an approach that has worked for me. You can think of many ways to adapt this strategy to meet your students' needs.”
4. **End every interaction with a clear review of next steps.** It's helpful to give teachers concrete ideas about what appropriate next steps should be. That way, your subsequent interactions have a focus, a purpose, and together, you and the teachers you're coaching will have meaningful milestones to work towards.

Tips for CCSS Implementation in Your Classroom

CCSS—Standards for Mathematical Practice	Tips for Implementation in Your Classroom
Make sense of problems and persevere in solving them	Encourage students to ask themselves “does this make sense?” while they are working through any problem. This “habit of mind” is essential in every academic endeavor.
Reason abstractly and quantitatively	Ask students to explain verbally and/or visually the relationship expressed in the problem.
Construct viable arguments and critique the reasoning of others	Ask students to tell you how they know that an answer is correct. Verbalizing a rationale is part of self-assessment.
Model with mathematics	Ask students to bring in and share examples of “real world” mathematics at work.
Use appropriate tools strategically	Provide students with a variety of tools, technology, and manipulatives, and model how these tools can be used to tackle math challenges.
Attend to precision	Ask students to give you examples of their accuracy during the problem and understanding.
Look for and make use of structure	Provide students with clear examples of patterns to build their learning upon.
Look for and express regularity in repeated reasoning	Ask students to represent their thinking and reasoning in a variety of ways including models, language and symbols.

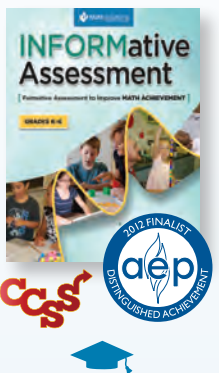


Investigations, Tasks, and Rubrics to Teach and Assess Math, Grades 1–6

Pat Lilburn and Alex Ciurak

Giving teachers a menu of rich mathematical experiences for all students, this dynamic resource provides strategies for developing differentiated, open-ended, and engaging problem-solving tasks. At the core of this resource are research-based assessment rubrics to inform math teaching on an ongoing basis. Included are nine sample rubrics, more than 200 tasks grouped by content strands reflecting the ideals of NCTM's *Principles and Standards for School Mathematics* and *Curriculum Focal Points*, and 60 reproducible investigations. The included CD contains all the reproducibles in a downloadable, printable format.

ISBN: 978-1-935099-14-7 Grades 1–6 154 pages >> \$38.95

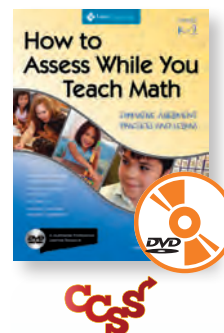


INFORMative Assessment: Formative Assessment to Improve Math Achievement, Grades K–6

Jeane M. Joyner and Mari Muri

What is formative assessment? Why do we do it and what do students gain? Formative assessment is not a one-time event. It is not the product or end result of a set of well-defined steps. Rather, formative assessment is a process identified in this resource as “INFORMative assessment” when it is a collection of strategies that engage teachers and students in becoming partners to support students’ learning. This resource uniquely presents a collaborative learning journey in which educators understand the INFORMative perspective, explore must-have practices, and discuss how to implement them.

ISBN: 978-1-935099-19-2 Grades K–6 336 pages >> \$40.95



How to Assess While You Teach Math: Formative Assessment Practices and Lessons, Grades K–2, A Multimedia Professional Learning Resource

Dana Islas

Featuring video footage from K–2 classrooms, this multimedia resource introduces seven key formative assessment practices, then demonstrates them in action through 19 engaging lessons. It’s the ideal resource for further understanding the process of formative assessment in addition to improving your teaching of mathematics. All lessons are aligned to the Common Core State Standards for Mathematics and Standards for Mathematical Practice.

ISBN: 978-1-935099-17-8 Grades K–2 224 pages >> \$61.95



This Is Only a Test: Teaching for Mathematical Understanding in an Age of Standardized Testing

Nancy Litton and Maryann Wickett

Transform teachers’ and students’ feelings toward standardized tests from panic and anxiety to control and confidence. This book’s proven strategies help students perform well on standardized tests without compromising teachers’ basic beliefs about how children learn. Create a year-long plan for teaching math while simultaneously ensuring state standards are met; examine the relationship between released test items and the knowledge and skills students need to respond correctly; and discover ways to handle test preparation during the weeks before a test.

View the *This Is Only a Test Book Study Guide* at store.mathsolutions.com.

ISBN: 978-0-941355-87-2 Grades 2–5 128 pages >> \$26.95

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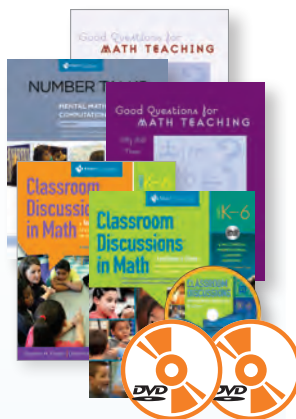
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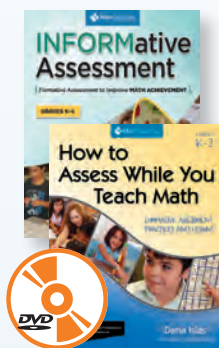
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Classroom Discussions in Math: A Teacher's Guide for Using Talk Moves to Support the Common Core and More, Grades K–6, Third Edition

Suzanne H. Chapin, Catherine O'Connor, and Nancy Canavan Anderson

See page 4 for complete description.

Intended for Individual Teacher Use

Classroom Discussions in Math: A Facilitator's Guide to Support Professional Learning of Discourse and the Common Core, Grades K-6

Classroom Discussions: A Facilitator's Guide to Support Professional Learning of Discourse and the Common Core, Grades K–6 provides preservice and inservice instructors, coaches and facilitators with real, classroom-based video examples that illustrate the principles and practices covered in the authors' best-selling book, *Classroom Discussions: Using Math Talk to Help Students Learn, Grade K–6, Second Edition*. Ideally the two resources – Classroom Discussions: A Teachers Guide and Classroom Discussions: A Facilitators Guide are used together. The video examples demonstrate how talk tools can be used successfully in typical classrooms.

Watch & Discuss

The guide offers twenty professional development sessions centered on video clips illustrating best talk practices in action. The sessions are divided into chapters that correspond to the chapters in *Classroom Discussions: Using Math Talk to Help Students Learn, Grades K–6, Second Edition* (available separately). Included in each of the sessions are activities to use in conjunction with the video clips, reproducible handouts, discussion questions, and assignments for participants.

Intended for Group/Professional Development Use

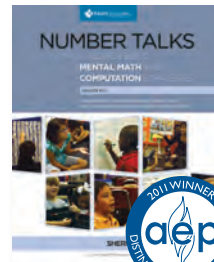
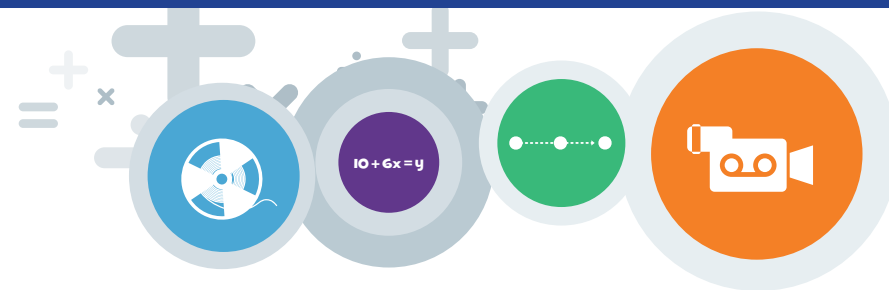
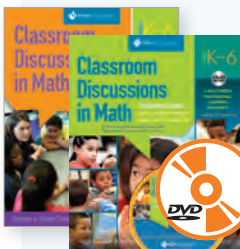
ISBN: 978-1-935099-12-3 Grades K–6 **240 Pages >> \$149.95**

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Number Talks: Helping Children Build Mental Math and Computation Strategies, Grades K–5, A Multimedia Professional Learning Resource

Sherry Parrish

This multimedia professional learning resource offers:

- More than 850 purposefully designed number talks
- DVD featuring 19 number talks filmed in actual classrooms

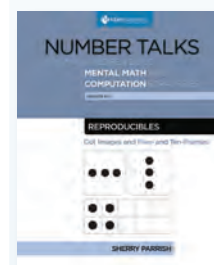
ISBN: 978-1-935099-11-6 Grades K–5 **\$73.95**

Watch

The accompanying DVD provides a visual platform for teachers to reflect on their current practices and target essential understandings for their readings.

Discuss

While the book may be used as an independent resource, it is also structured to provide a framework for collaborative learning groups or to provide professional development opportunities through grade-level teams, schools, or districts. Chapter 9 serves as a facilitator's guide, providing guidance for use of the video clips by grade level along with discussion questions to support reflection and collegial conversations about number talks and student learning.



Number Talks: Reproducible Dot Images and Five- and Ten-Frame (Download only)

Now the K–2 *Dot Images and Five- and Ten-Frames* from Chapter 4 of the best-selling Number Talks resource are in a user-friendly, reproducible format! This downloadable file contains over 250 reproducibles for immediate use.

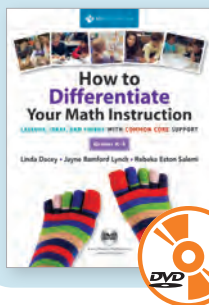
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NEW TITLE



How to Differentiate Your Math Instruction: Lessons, Ideas and Videos with Common Core Support, Grades K-5

Linda Dacey, Jayne Bamford Lynch, and Rebeka Eston Salemi
See page 4 for details.

ISBN: 978-1-935099-40-6

Grades K-5

384 pages >> \$71.95



Teaching Preschool and Kindergarten Math: Ideas, Lessons, and Videos for Building Foundations in Math, A Multimedia Professional Learning Resource, Grades PreK-K

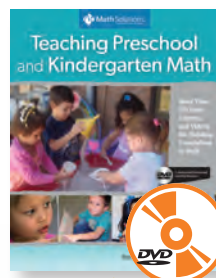
Ann Carlyle and Brenda Mercado

Through an exciting multimedia format, *Teaching Preschool and Kindergarten Math* takes you into an early childhood classroom for a “seeing is believing” look at how to create a focused, successful mathematics program while simultaneously deepening your knowledge of the mathematical ideas that need to be developed at an early age. The demands of the Common Core State Standards require students to have a stronger grounding in math concepts early on. In addition, research indicates that mastery of math concepts in early childhood is the most powerful predictor of later learning. These factors and more make *Teaching Preschool and Kindergarten Math* an essential go-to resource for the teaching and learning of early childhood mathematics.

ISBN: 978-1-935099-44-4

Grades PreK-K

368 pages >> \$69.95



How to Assess While You Teach Math: Formative Assessment Practices and Lessons, Grades K-2, A Multimedia Professional Learning Resource

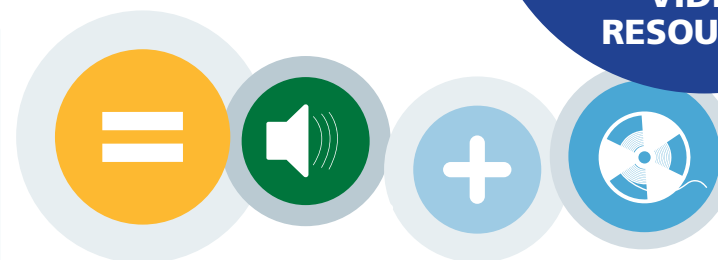
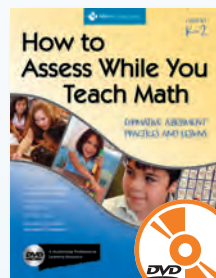
Dana Islas

Featuring video footage from K-2 classrooms, this multimedia resource introduces seven key formative assessment practices, then demonstrates them in action through 19 engaging lessons. It's the ideal resource for further understanding the process of formative assessment in addition to improving your teaching of mathematics. All lessons are aligned to the Common Core State Standards for Mathematics and Standards for Mathematical Practice.

ISBN: 978-1-935099-17-8

Grades K-2

224 pages >> \$61.95



Supporting English Language Learners in Math Class, A Multimedia Professional Learning Resource

Rusty Bresser, Carolyn Felux, Kathy Melanese, and Christine Sphar

Use this resource in mainstream classrooms to meet the challenge of simultaneously improving students' mastery of mathematics and advancing their academic language development. This multimedia resource helps schools implement effective instructional practices that create sustainable results for English language learners.

Take an online tour of this resource at mathsolutions.com/ell.

Watch classrooms in action with real-life footage of students and teachers using effective strategies from the included two-book series.

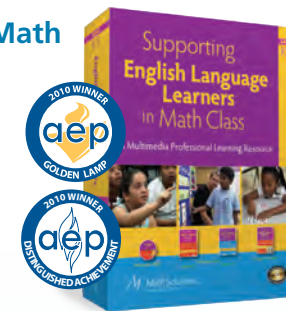
Read lessons and research-based best practices for teaching mathematics to English language learners.

Discuss effective techniques and model lessons using the Facilitator's Guide. Provide ongoing, site-based coaching with questions to guide viewing and reading, follow-up activities, and reproducibles.

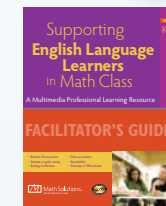
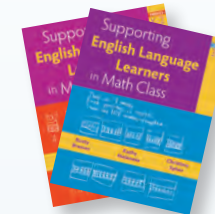
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Facilitator's Guide

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Title	Grade Level									Price	P
	K	1	2	3	4	5	6	7	8		
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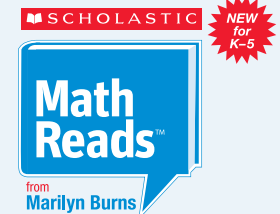
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