Inspire a Culture of Math Achievement

PRE-K–12 PROFESSIONAL RESOURCES
Inspire a Culture of MATH ACHIEVEMENT

When teachers are empowered to teach, and students have the foundations they need to build and grow, something extraordinary happens: math achievement becomes inherent to the school culture.

Initiating and sustaining this type of change requires involvement at every level—from district leaders to classroom teachers. Most importantly, schools must make a commitment to a strong plan for professional learning.

For more than 30 years, Math Solutions has been transforming instruction by focusing exclusively on the highest-quality mathematics professional development, courses, coaching, and educator resources. We have collaborated with schools and districts across the nation, proving time and again that high-quality teaching is the most important driver of student achievement.

And just as every educator seeks to inspire a love of learning in their students, we, as educators ourselves, strive for the same with our partner schools. Let us help inspire your school to reach higher and raise achievement.

MARILYN BURNS
Founder, Math Solutions

Marilyn Burns is one of today’s most highly respected mathematics educators. In 1984, Marilyn formed Math Solutions®, dedicated to improving students’ learning of mathematics by providing educators with the highest-quality professional learning services and resources. Working with a team of mathematics teaching and learning experts to offer specialized professional learning to teachers and administrators, Marilyn and the Math Solutions team have contributed to the transformation of thousands of school districts nationwide.
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Math Workshop: Five Steps to Implementing Guided Math, Learning Stations, Reflection, and More
Jennifer Lempp

Successfully implement the transformational math workshop model of instruction through five accessible, manageable steps:

Step 1: Understand Math Workshop
Step 2: Prepare Your Students for Math Workshop
Step 3: Decide Your Math Workshop Structure
Step 4: Facilitate Your Math Workshop
Step 5: Reflect on and Refine Your Math Workshop

Educators are invited to embrace this resource as their own personal “instructional coach,” first exploring what the author refers to as “three buckets” that need to be in place for a highly successful math workshop:

- Classroom Arrangement
- Routines and Procedures
- Mathematics Community

The resource then offers “Twenty Days to a Classroom Culture That Works,” which includes twenty minilessons that support the communication and practice of expectations surrounding the workshop model. From there, it explores three classroom-tested math workshop structures, providing practical ideas for routines, focus lessons, guided math groups, learning stations, and reflections so you can get started with math workshop in your classroom today.

Streaming Video Clips
The online video clips invite you inside K–5 classrooms for a seeing-is-believing look at math workshop in action. Seeing clips of actual teachers and students engaged in math workshop is the next best thing to observing the model in a classroom. Templates, tools, and ideas are included and available in downloadable format.

ISBN: 978-1-935099-61-1
Grades K–5    233 pages    $69.95

Math Workshop Course and Coaching
See page 17 for more information.

Learn more about Math Workshop:
www.mathsolutions.com/mathworkshop

Math Workshop Related Resources:

Math Games for Number and Operations and Algebraic Thinking: Games to Support Independent Practice in Math Workshops and More
Jamee Petersen
This dynamic collection of more than 30 math games supports students’ learning of number in math workshops. Games include reproducibles and are correlated to the Common Core State Standards.
ISBN: 978-1-935099-43-7
Grades K–5    304 pages    $36.95

How to Differentiate Your Math Instruction: Lessons, Ideas, and Videos
Linda Dacey, Jayne Bamford Lynch, and Rebeka Eston Salemi
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? This resource shares classroom practices that help all students be successful. It features 21 streaming video clips that illustrate how everything from menus and tiered tasks to math workshops and multiple intelligences centers can be carried out in the classroom.
ISBN: 978-1-935099-40-6
Grades K–5    384 pages    $72.95

From Reading to Math: How Best Practices in Literacy Can Make You a Better Math Teacher
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.
ISBN: 978-1-935099-04-8
Grades K–5    168 pages    $27.95
Give Me Five! Five Coach-Teacher-Principal Collaborations That Promote Mathematics Success
Janice Bradley and Dana Cargill

This resource provides the guidance and tools necessary to implement five coach-teacher-principal collaborations that have improved mathematics instruction for hundreds of students. The video clips and interviews invite you inside schools for a “seeing is believing” look at math coaches, teachers, and principals collaborating in action. Includes connections to the Common Core State Standards for Mathematics.

Grades K–5  240 pages  $69.95

COMING SOON!
It Makes Sense! Using Number Paths and Number Lines to Build Number Sense
Ann Carlyle

This collection of lessons and games promotes the use of number paths and number lines to help students develop the skills they need to become flexible and fluent problem solvers, as well as meet the requirements of many state standards.

Grades K–2  Pages TBD  $36.95
See page 10 for other books in this series.

Mathematics Discourse in Secondary Classrooms
Beth Herbel-Eisenmann, Michelle Cirillo, Michael D. Steele, Samuel Otten, Kate R. Johnson

Built from research-based frameworks, this powerful professional learning program provides groups of participants with opportunities to grapple with important ideas about mathematics discourse in an effort to support all students to engage in richer, deeper discourse that positively impacts their learning of mathematics and their identities as mathematics learners.

Organized for both novice and experienced professional learning facilitators, the program features the following components:

Facilitator’s Guide
The more than 500-page Facilitator’s Guide offers seven professional learning modules, called Constellations. Each is organized as a set of case-based, practice-based activities providing 30 to 40 hours of experiences.

Participant Guides
Each Constellation offers a participant guide in a downloadable, full-color PDF format.

Video and Audio Clips
The resource contains five video clips and one audio clip as part of the narrative cases. All clips are accessible online or via the QR codes in the Facilitator’s Guide.

PowerPoint Slides
A downloadable PowerPoint® presentation further helps with facilitating the modules.

ISBN: 978-1-935099-88-8
Grades Middle and High School  390 pages  $279.95
RESOURCES BY MARILYN BURNS

About Teaching Mathematics, Fourth Edition
See page 5.

The Marilyn Burns Fraction Kit®
See page 9.

50 Problem-Solving Lessons: The Best from 10 Years of Math Solutions Newsletters
See page 23.

Math and Literature Series
See page 19.

A Collection of Math Lessons Series
See page 23.

Math By All Means®; Probability
See page 13.

Lessons for Algebraic Thinking® Series
See page 14.

So You Have to Teach Math? Sound Advice for K–6 Teachers
See page 25.

Teaching Arithmetic® Series
See page 8.

Writing in Math Class: A Resource for Grades 2–8
See page 19.

The $1.00 Word Riddle Book
See Math Solutions bookstore on website for product details.

For more resources by Marilyn, see mathsolutions.com
About Teaching Mathematics, Fourth Edition

In this fourth edition of her signature resource, Marilyn presents her current thinking and insights and includes ideas from her most recent teaching experiences. Part 1, “Starting Points,” reflects the major overhaul of this book and addresses 23 issues important to thinking about teaching mathematics today. Part 2, “Problem-Solving Investigations,” and Part 3, “Teaching Arithmetic,” offer whole-class, small-group, and individual investigations. In Part 4, Marilyn responds to questions she has received from teachers over the years.

ISBN: 978-1-935099-32-1
Grades K–8  536 pages  $89.95

Marilyn is Blogging and Tweeting!
Hear directly from Marilyn regarding her current thinking about math education and her ongoing classroom experiences and learning.

MATH INTERVENTION RESOURCES BY MARILYN BURNS

Do The Math®
Created by Marilyn Burns

Designed to support struggling students in Grades 1–5, Do The Math® offers comprehensive teacher support and high-quality instruction to help students develop the skills they need to compute with accuracy and efficiency, the number sense they need to reason, and the ability to apply their skills and reasoning to solve problems.

For more information, visit:
store.mathsolutions.com
hmhco.com/dothemath

Math Reads®

Math Reads® is a math and literature program for students in Grades K–5. Each book in Math Reads invites students into the world of mathematics through lessons inspired by delightful children’s books.

For more information, visit:
store.mathsolutions.com
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, use accurate math language, and build stronger math memory.

Talk Moves: A Teacher’s Guide for Using Classroom Discussions in Math
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 third edition offers 46 video clips from kindergarten through Grade 6, showing students and teachers engaged in successful classroom discussions. This title was formerly Classroom Discussions in Math.

Intended for Individual Teacher Use
ISBN: 978-1-935099-8-25
Grades K–6 448 pages $73.95

Nancy Canavan Anderson, Suzanne H. Chapin, and Catherine O’Connor
Featuring 20 professional sessions and 75 video clips, this facilitator’s guide can be used in conjunction with the above teacher’s guide or separately. This title was formerly Classroom Discussions in Math.

Intended for Group/Professional Learning Use
ISBN: 978-1-935099-8-3-7
Grades K–6 240 pages $149.95

Math Talk Moves Poster
Talk moves are strategies that teachers can use to facilitate whole-class discussions that deepen students’ mathematical understanding. This friendly and fun poster is perfect. 24 x 36 inches, shrink-wrapped
ISBN: 978-0-545-84883-1
Package of 10 $29.9

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

Talk Moves Bundle
Includes one copy of the above Talk Moves: Teacher’s Guide and one copy of Talk Moves: Facilitator’s Guide.
ISBN: 978-1-935099-30-7
Grades K–6 $179.00

Mathematics Discourse in Secondary Classrooms
Beth Herbel-Eisenmann, Michelle Cirillo, Michael D. Steele, Samuel Otten, Kate R. Johnson
ISBN: 978-1-935099-88-8
Middle and High School 390 pages $279.95
See page 3 for description.

Math Talk Moves
Talk in math class?
You bet!
Good Questions for Math Teaching: Why Ask Them and What to Ask, Grades K–6
Peter Sullivan and Pat Lilburn
Do you think it makes sense to split a day into 24 hours? Would another number have been a better choice? Good questions promote students’ mathematical thinking and understanding. This best-selling book offers a wealth of sample questions as well as guidance on how to create your own good questions.
Grades K–6 112 pages $28.95

Good Questions: Complete Set of 2 Books
ISBN: 978-0-941355-94-0
$47.52

Number Talks: Whole Number Computation
Sherry Parrish
See page 11 for a complete description of this resource.
Grades K–5 432 pages $75.95

Number Talks: Fractions, Decimals, and Percentages
Sherry Parrish and Ann Dominick
See page 11 for a complete description of this resource.
ISBN: 978-1-935099-75-8
Grades 3–7 404 pages $75.95

Number Talks: Dot Images and Five- and Ten-Frames (Download only*)
Sherry Parrish
Reproducible page size: 8.5” x 11” for ease of printing.
279 pages $29.95

Number Talks: Area, Set, and Linear Models (Download only*)
Sherry Parrish and Ann Dominick
See page 11 for a complete description of this resource.
ISBN: 978-1-935099-87-1
Grades 3–7 $29.95

* Downloadable products are nonrefundable.
# 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.

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| Teaching Arithmetic® Series: Complete Set of 12 Books | |
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| ISBN: 978-0-941355-91-9                               |
| $376.89                                               |

(2 × 3) + 2 = 8

* Not all covers are shown.
Number Talks: Fractions, Decimals, and Percentages
Sherry Parrish and Ann Dominick
This second resource in the best-selling Number Talks series supports teachers who want to implement number talks but are unsure of how to begin and teachers who are seasoned in this art of instruction but desire additional support in crafting purposeful problems. This resource is intended to help teachers begin or refine their use of number talks with fractions, decimals, and percentages. The more than 30 video clips give readers the opportunity to access authentic classroom number talks with third- through seventh-grade students.
ISBN: 978-1-935099-75-8
Grades 3–7 404 pages  $75.95

Beyond Pizzas & Pies: 10 Essential Strategies for Supporting Fraction Sense, Second Edition
Julie McNamara and Meghan M. Shaughnessy
The focus of this resource is on foundational understandings. The authors help teachers and students understand fractions as numbers, including the use of equivalency and thinking about benchmark numbers, so that when students start to compute with fractions (see the companion resource, Beyond Invert & Multiply), they have a solid foundation.
ISBN: 978-1-935099-53-6
Grades 3–5  232 pages  $62.95

Beyond Invert & Multiply: Making Sense of Fraction Computation
Julie McNamara
This resource builds on the foundational understandings that are described in Beyond Pizzas & Pies and applies them to situations involving fraction computation. Each chapter offers classroom activities for investigating the meaning of fractions, fractions as numbers, fraction addition and subtraction, fraction multiplication and division, and classroom discussions on fractions.
ISBN: 978-1-935099-57-4
Grades 3–6  240 pages  $62.95

The Marilyn Burns Fraction Kit®
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, (see page 8), the kit contains The Fraction Kit Guide, Grades 4–6; 30 sets of 8 colored 2-by-15-inch strips with student storage bags; 15 beginner and 15 advanced fraction dice; and a teacher set of magnetic strips.

**Complete Fraction Kit**
Grades 4–6  Item no. 600215  $49.95

**Replacements:**
15 beginner fraction dice (red)  Item no. 617983  $14.95
15 advanced fraction dice (blue)  Item no. 617982  $14.95
30 sets of 8 colored strips  Item no. 617984  $24.95
Teacher set of magnetic strips  Item no. 617985  $17.95
COMING SOON!

*It Makes Sense! Using Number Paths and Number Lines to Build Number Sense*

Ann Carlyle

See page 3 for a complete description of this resource.

Grades K–2  Pages TBD  $36.95

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*It Makes Sense! Using Ten-Frames to Build Number Sense*

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.

ISBN: 978-1-935099-10-9
Grades K–2  320 pages  $36.95

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*It Makes Sense! Using the Hundreds Chart to Build Number Sense*

Melissa Conklin and Stephanie Sheffield

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.

ISBN: 978-1-935099-37-6
Grades K–2  288 pages  $36.95

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**Teaching Number Sense Series**

The goals of this series are to help children to see numbers as tools and 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

Grade K  160 pages  $32.95

**Grade 1**

Chris Confer

Grade 1  160 pages  $32.95

**Grade 2**

Susan Scharton

Grade 2  200 pages  $32.95

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**It Makes Sense! Series**

Includes *It Makes Sense! Hundreds Chart* and *It Makes Sense! Ten Frames*.

ISBN: 978-1-935099-50-5  $59.95
Number Talks: Whole Number Computation
Sherry Parrish
This professional learning resource offers:
• More than 850 purposefully designed number talks
• Video clips featuring 19 number talks filmed in actual classrooms
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 learning 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.
Grades K–5    432 pages    $75.95

Number Talks: Dot Images and Five- and Ten-Frames (Download only*)
Sherry Parrish
Now the 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 more than 250 reproducibles for immediate use.
279 pages    $29.95

"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

Fraction Sense

Number Talks: Fractions, Decimals, and Percentages
Sherry Parrish and Ann Dominick
This second resource in the best-selling Number Talks series supports teachers who want to implement number talks but are unsure of how to begin and teachers who are seasoned in this art of instruction but desire additional support in crafting purposeful problems. This resource is intended to help teachers begin or refine their use of number talks with fractions, decimals, and percentages. More than 30 video clips give readers the opportunity to access authentic classroom number talks.
ISBN: 978-1-935099-75-8
Grades 3–7    404 pages    $75.95

Number Talks: Area, Set, and Linear Models (Download only*)
Sherry Parrish
Number Talks Reproducibles: Area, Set, and Linear Models include more than 150 pages of user friendly, reproducible area, set, and linear models from Chapters 4, 6, 7, and 8 of Number Talks: Fractions, Decimals, and Percentages.
Reproducible page size: 8.5” x 11” for ease of printing.
ISBN: 978-1-935099-87-1
150 pages    $29.95
See page 16 for Number Talks Course.

* Downloadable products are nonrefundable.
MEASUREMENT

Measurement requires estimation, making comparisons, mental math, and number sense. Students need to add, subtract, multiply, divide, and perceive numerical relationships in many different ways. Measurement must be an important part of the mathematics curriculum because it helps students make mathematical sense of their lives and prepares them for their future.

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
192 pages $39.95

Activities for Grades 3–5 Classrooms
Chris Confer
ISBN: 978-0-941355-80-3
344 pages $39.95

Activities for Grades 6–8 Classrooms
Ann Lawrence and Charlie Hennessy
ISBN: 978-0-941355-81-0
280 pages $39.95

Sizing Up Measurement Series:
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 book includes reproducibles.

Geometry
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 $32.95

Geometry
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 $32.95

Probability
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 $32.95

Area and Perimeter
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.

Grades 5–6 208 pages $32.95

Probability
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.

Grades 1–2 200 pages $32.95
**It’s All Connected:**
The Power of Representation to Build Algebraic Reasoning
Frances Van Dyke

*It’s All Connected* focuses on the power of representation to build algebraic reasoning, offering a collection of 40 quick lessons (each takes less than 30 minutes). The lessons feature: creative exercises that illustrate key concepts associated with the graphical representation of functions, reproducible pages on which students can record their work (download provided upon purchasing this resource); correlations to the Common Core State Standards; teaching insights and more.

ISBN: 978-1-935099-42-0
Middle and High School 208 pages  $37.95

**It’s All Connected:**
The Power of Proportional Reasoning to Understand Mathematics Concepts
Carmen Whitman

*It’s All Connected* provides teachers of mathematics the support they need to improve their instruction. This in-demand collection of lessons for Grades 6 through 8 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; connections to the 5 content strands of middle-school mathematics; 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  $37.95

**Active Algebra:**
Strategies and Lessons for Successfully Teaching Linear Relationships
Dan Brutlag

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- www.marilynburnsmathblog.com
NEW! Number Talks: Fractions, Decimals, and Percentages, Grades 3–7
This one-day course focuses on number talks that build conceptual understanding of fractions, decimals, and percentages. Participants learn how to use this routine as a vehicle to focus on the essential understandings of rational numbers and develop a robust fluency. Content from Number Talks is woven throughout this course.

Outcomes

- Facilitate number talks to draw attention to student thinking and bring their reasoning to the forefront of the class.
- Shift instruction about rational numbers from procedure- and rule-based toward sense making and understanding.
- Highlight contexts and models during number talks to develop and anchor flexible and efficient strategies for reasoning and computing with rational numbers.

Target Audience:
Math Coaches, Teacher Leaders, Teachers
Grades: 3–7
Format: Full Day
For more information visit: mathsolutions.com/ms_course/number-talks-fractions

Number Talks: Whole Number Computation, Grades K–5
This course introduces teachers, math coaches, and curriculum specialists to the theory, structure, and focus of number talks. As participants interact throughout the day, they reflect on their current practices and target essential understandings about numbers and operations called for in their state standards. Content from our award-winning and best-selling title Number Talks is woven throughout this course.

Outcomes

- Recognize number talks as a valuable classroom routine for making sense of mathematics, developing efficient computation strategies, communicating reasoning, and proving solutions.
- Characterize the key components of number talks and understand the importance of each.
- Explore ways to support students’ development of common strategies for addition and subtraction.
- Describe student strategies that emphasize the important mathematical ideas inherent in the strategies.
- Use models and tools that support student understanding and proficiencies with whole number operations.

Target Audience:
Math Coaches, Teacher Leaders, Teachers
Grades: K–2, K–5, 3–5
Format: Full Day
For more information visit: mathsolutions.com/ms_course/number-talks
Differentiating 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. Teachers examine a variety of approaches that help them make instructional adjustments to content, provide activities that accommodate different students’ learning styles, and offer a variety of ways for students to demonstrate what they’ve learned. Content from How to Differentiate Your Math Instruction is woven throughout this course.

Outcomes
• Experience and analyze strategies to adapt classroom practices to address the wide range of learners in classrooms and make learning accessible for all students.
• Gather and use information about what students already know, their interests, and how they learn best.
• Choose, analyze, and adjust tasks to accommodate students’ varying levels of readiness.
• Experience a classroom atmosphere that stimulates and supports students’ learning of mathematics.

Target Audience: Math Coaches, Teacher Leaders, Teachers
Grades: K–2, K–5, 3–5
Format: Two Day; Additional Options May Be Available
For more information visit:
mathsolutions.com/ms_course/differentiating-mathematics-instruction

NEW! Math Workshop: Structures and Practices for Student Learning
Standards and student needs drive mathematics instruction. This course highlights Math Workshop, a model for organizing standards-based instruction to support all learners in the mathematics classroom. Participants engage in the Math Workshop model of instruction, reflect on how the structures and learning environment leverage increased learning for all students, and create a plan to implement Math Workshop in the classroom. Content from Math Workshop is woven throughout this course.

Outcomes
• Understand the purpose and use of the three structures of Math Workshop.
• Verbalize and act on the roles of the teacher and students in the Math Workshop classroom.
• Implement a plan for getting started with Math Workshop.
• Create a Math Workshop classroom that relies on formative assessment and differentiation.

Target Audience: Math Coaches, Teacher Leaders, Teachers
Grades: K–2, K–5, 3–5
For more information visit:
mathsolutions.com/ms_course/mathworkshop

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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 unfolds in a classroom.

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Jennifer M. Bay-Williams and Sherri L. Martinie
184 pages $32.95

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Marilyn Burns
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ISBN: 978-0-941355-13-1
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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 $27.95

mathsolutions.com
Why Can’t I Have Everything? Teaching Today’s Children to Be Financially and Mathematically Savvy
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 more than 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 all the lessons together.

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Kathy Melanese, Luz Chung, and Cheryl Forbes
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Supporting English Language Learners in Math Class, A Multimedia Professional Learning Resource
See page 27 for a complete description of this resource.
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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? This resource shares classroom practices that help all students be successful. It features 21 video clips that illustrate how everything from menus and tiered tasks to math workshops and multiple intelligences centers can be carried out in the classroom.
ISBN: 978-1-935099-40-6
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Smarter Than We Think is a must-read for parents, teachers, policy makers, or anyone who cares about mathematical education. Seeley tackles common misconceptions about students and challenges teachers and teacher educators to engage students by turning their classrooms “upside-down” and to rethink what “everyone knows” about teaching mathematics. She exhorts policy makers to put mathematics first when making choices about technology in the classroom, restructuring curriculum, and high-stakes testing.
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Edited by Marilyn Burns
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Ann Carlyle and Brenda Mercado
This resource takes you into an early childhood classroom for a seeing-is-believing look at how to create a focused, successful mathematics program while deepening your knowledge of the mathematical ideas that need to be developed at an early age. 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 this an essential go-to resource for the teaching and learning of early childhood mathematics.
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Teaching Preschool and Kindergarten Math: Ideas, Lessons, and Videos for Building Foundations in Math
Ann Carlyle and Brenda Mercado
See page 22 for a complete description of this resource.
ISBN: 978-1-935099-44-4
Grades PreK–K 368 pages $69.95

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See page 24 for a complete description of this resource.
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Linda Dacey, Jayne Bamford Lynch, and Rebeka Eston Salemi
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## BOOKS & RESOURCES MATRIX

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   - Evaluation
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   - Deepening Learning
3. **Application**
   - Mid-Year Reporting
   - Measure Results
4. **End of Year**
   - End-of-Year Reporting
   - Review and Analyze Progress
   - Measure Results and Ensure Sustainable Success

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