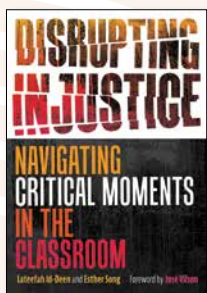


FALL/WINTER 2023-2024

ESSENTIAL RESOURCES



New Releases and Featured Publications



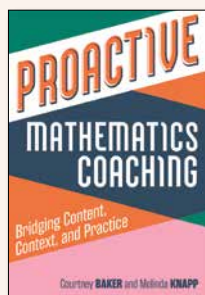
Disrupting Injustice: Navigating Critical Moments in the Classroom

Lateefah Id-Deen and Esther Song

Take an enlightening journey through the experiences of mathematics educators from diverse backgrounds who've confronted injustices. Gain insights from researchers whose commentaries contextualize each critical moment within the realm of academic study.

NEW!

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Proactive Mathematics Coaching: Bridging Content, Context, and Practice

Courtney Baker and Melinda Knapp

This new volume introduces the Proactive Coaching Framework (PCF) to help those in formal and informal mathematics leadership positions intentionally refine and advance their practice through goal setting and planning for professional learning.

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Modern Math Tasks to Provoke Transformational Thinking: Grades 9-12

Edited by Suzanne Harper and Dana Cox

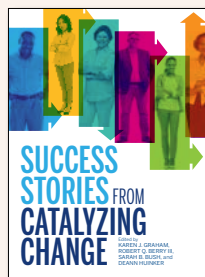
The innovative tasks in this new volume bridge the gap between traditional siloed education and the real-world problems we encounter daily. By emphasizing mathematical modeling, data analysis, and cross-disciplinary thinking, they empower students to tackle complex

NEW!

issues and become global citizens ready to shape a brighter future.

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Catalyzing Change Series



Success Stories from Catalyzing Change

Edited by Karen Graham, Robert Q. Berry III, Sarah B. Bush, and DeAnn Huinker

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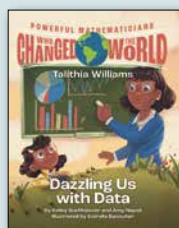
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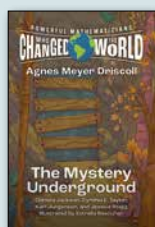
POWERFUL MATHEMATICIANS
WHO CHANGED THE WORLD
FOR CHILDREN AND YOUNG ADULTS



Dazzling Us with Data
 (Grades PK-2)
Kelley Buchheister and Amy Napoli
 This book shares parts of the early years of **Dr. Talithia Williams** of being one of only a few Black

girls in class—and how she applied math to many daunting situations. Additionally, young readers will get excited about doing math thanks to the interesting questions and math problems in the book. Teachers can use the discussion and activity prompts to engage young mathematicians in the classroom or at home.

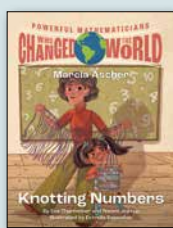
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The Mystery Underground
 (Grades 6-8)
Christa Jackson, Cynthia E. Taylor, Kari Jurgenson, and Jessica Stagg

When Jake and Selah find confusing messages while geocaching, they aren't sure what the notes mean. But after reading about **Agnes Meyer Driscoll**, a cryptanalyst, and learning about different ciphers and codes, they work with their friends to decode the odd messages. They realize the secret codes are part of a plot by some very important people to cover up problems in their town of Pottersville.

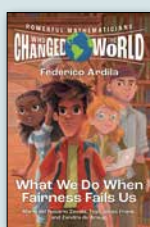
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Knotting Numbers
 (Grades 3-5)
Eva Thanheiser and Naomi Jessup

When Liliana has her first day at a new school, she's nervous about making new friends, and a complex math problem in her class doesn't help. After she shares her Abuela's strategy for solving the problem, some of her classmates don't understand or think her way is wrong. **Marcia Ascher**, a professor and mathematician, and a friend of her teacher, describes to the students how different cultures have their own ways of doing math.

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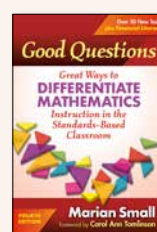
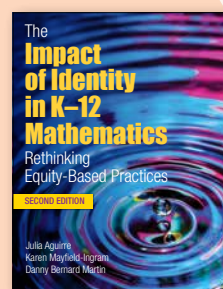


What We Do When Fairness Fails Us
 (Grades 9-12)
Maria del Rosario Zavala, Toya Jones Frank, and Zandra de Araujo

Moises, Marissa, and Astrud realize that a specialized high school uses a lottery for admission that prevents many qualified students from attending. As they research how lotteries work, they come across videos by **Federico Ardila**, a mathematician who explains concepts like randomness and probability and how they apply to our everyday lives.

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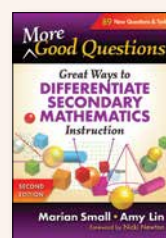
COMING WINTER 2024



Good Questions: Great Ways to Differentiate Mathematics Instruction in the Standards-Based Classroom, 4th edition
Marian Small

With more than 50 new questions and a new chapter on financial literacy, the book shows teachers how two powerful and universal strategies: open questions and parallel tasks. This edition includes direct links to Common Core Content Standards and Standards for Mathematical Practice. Parallel tasks and question examples are provided at each grade band: K-2, 3-5, and 6-8.

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More Good Questions, Second Edition
Marian Small and Amy Lin

Featuring 89 new questions, this revised edition uses two powerful and universally applicable strategies—Open Questions and Parallel Tasks—to help teachers differentiate instruction with less difficulty and greater success.

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Mathematics Lessons to Respond to Social Injustice

The Mathematics Lessons to Explore, Understand, and Respond to Social Injustice series was written for teachers committed to developing equitable and just practices through the lens of mathematics content and practice standards as well as social justice standards. This series will help connect content to students' daily lives, fortify their mathematical understanding, and expose them to issues that will support them in becoming active citizens and leaders.

Early Elementary

Courtney Koestler, Jennifer Ward, Maria del Rosario Zavala, and Tonya Gau Bartell

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Tonya Gau Bartell, Cathery Yeh, Mathew D. Felton-Koeslter, and Robert Q. Berry III

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Middle School

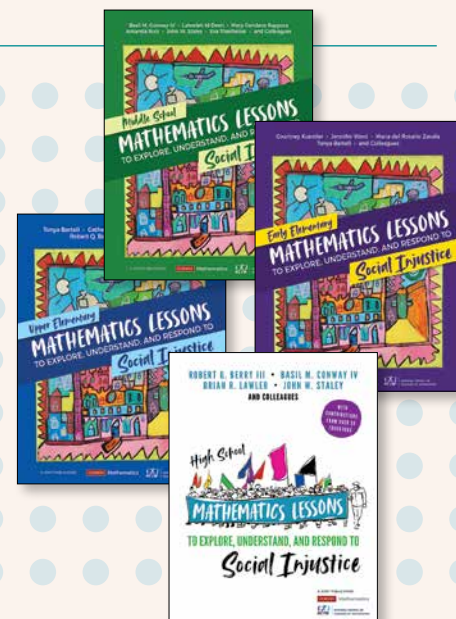
Basil M. Conway IV, Lateefah Id-Deen, Mary Candace Raygoza, Amanda Ruiz, John W. Staley, and Eva Thanheiser

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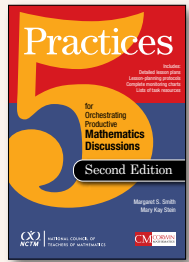
High School

Robert Q. Berry III, Basil M. Conway IV, Brian R. Lawler, and John W. Staley

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Five Practices

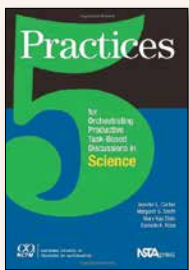


Five Practices for Orchestrating Productive Mathematics Discussions, Second Edition

Margaret S. Smith and Mary Kay Stein

The five manageable practices explained in this book have the power to put teachers in control of productive classroom discussions. The model—anticipating, monitoring, selecting, sequencing, and connecting—focuses on prior planning and limits the amount of improvisation required during the lesson.

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Five Practices for Orchestrating Productive Task-Based Discussions in Science

Margaret S. Smith and Mary Kay Stein

Engaging classroom discussions are essential for providing students with opportunities to simultaneously engage in science practices while learning key science content. The authors show how teachers can plan lessons to encourage students to learn science content and employ disciplinary practices.

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Nonmember \$35.64 | **Essential \$26.73** | **Premium \$24.95**



Take a deeper dive into understanding the Five Practices—**anticipating, monitoring, selecting, sequencing, and connecting**—for facilitating productive mathematical conversations in classrooms at all levels and learn to apply them with confidence. These follow-ups to the modern classic, *Five Practices for Orchestrating Productive Mathematics Discussions*, shows each practice in action in K–grade 12 classrooms and empowers teachers to be prepared for and overcome the challenges common to orchestrating math discussions.

Successfully Orchestrating Mathematical Discussions in your Elementary School Classroom

Margaret (Peg) Smith, Victoria Bill, and Miriam Gamoran Sherin

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Successfully Orchestrating Mathematical Discussions in Your Middle School Classroom

Margaret (Peg) Smith and Miriam Gamoran Sherin

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Successfully Orchestrating Mathematical Discussions in Your High School Classroom

Margaret (Peg) Smith, Michael D. Steele, and Miriam Gamoran Sherin

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Notice and Wonder Teaching Series

nctm.org/noticeandwonder

Notice and Wonder are free digital assets, available to all NCTM members for use in their online classrooms!

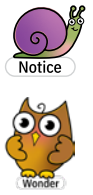
NEW! Notice and Wonder Lesson Plans

These lessons plans are designed to ignite curiosity through a series of images that connect students' own experiences with their mathematical observations. New lessons available monthly!



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Explore the world with these two friends discovering that math is all around them. Notice and Wonder provide fun and engaging mathematics prompts to spark the sense of curiosity that leads students to understand that math is everywhere!



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Activity Gems for the Classroom

Edited by Peggy House, Sharon Stenglein, and Roger Day

The carefully curated lessons incorporated into this series were chosen from NCTM's Navigations series. Teachers can use these lessons to help their students build on the foundation of their earlier instruction, expand their mathematical thinking into new areas, and advance in understanding and confidence.

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Principles to Actions and Taking Action



Principles to Actions: Ensuring Mathematical Success for All

Principles to Actions offers guidance to teachers, specialists, coaches, administrators, policymakers, and parents. It builds on NCTM's classic *Principles and Standards for School Mathematics* to present the six Guiding Principles for School Mathematics. With this ground-breaking volume, NCTM has taken the next step in shaping the development of high-quality standards globally.

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Series Editor, Margaret S. Smith

This series, designed to accompany the teachings of *Principles to Actions*, offers a coherent set of professional learning experiences that foster teachers' understanding of the effective mathematics teaching practices and their ability to apply those practices in their own classrooms. These books examine in depth what each teaching practice would look like in classrooms of all levels with narrative cases, classroom videos, and real student work that present a rich array of experiences that bring the practices to life.

Implementing Effective Mathematics Teaching Practices in Grades K–5

DeAnn Huinker and Victoria Bill

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Implementing Effective Mathematics Teaching Practices in Grades 6–8

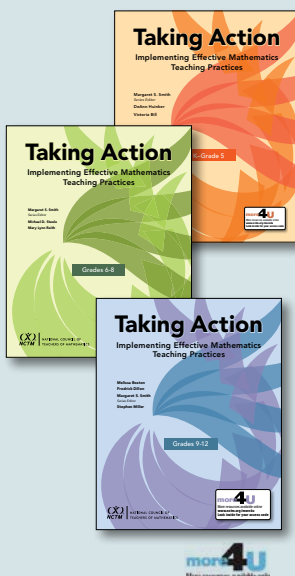
Margaret Smith, Michael Steele, and Mary Lynn Raith

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Nonmember \$46.30 | **Essential \$34.73** | **Premium \$32.41**

Implementing Effective Mathematics Teaching Practices in Grades 9–12

Melissa Boston, Frederick Dillon, Margaret Smith, and Stephen Miller

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G. Patrick Vennebush

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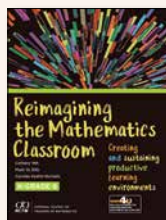


Student Book FREE with Purchase!



Reimagining the Mathematics Classroom

Cathery Yeh, Mark W. Ellis, and Carolee Koehn Hurtado

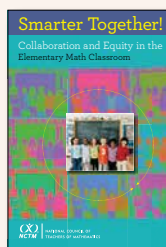


This book presents a comprehensive systems approach to examining mathematics teaching. It synthesizes and illustrates current research on the essential elements of mathematics teaching and learning, unpacking each component. In addition, tips on using technology to assess and enhance learning are embedded throughout the book.

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Smarter Together! Collaboration and Equity in the Elementary Math Classroom

Helen Featherstone, Sandra Crespo, Lisa Jilk, Joy Oslund, Amy Parks, and Marcy Wood

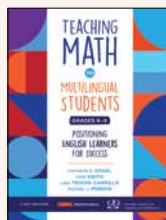


The authors describe the lessons they learned using group work, explain how complex instruction helps unsuccessful students, and analyze how to design assignments that support group learning—using group-worthy tasks—giving readers examples of good tasks and help in adapting math problems from their own curricula.

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Teaching Math to Multilingual Students, Grades K–8

Kathryn B. Chval, Erin Smith, Lina Trigos-Carrillo, and Rachel J. Pinnow



This guide offers practical approaches that equip K–8 teachers to draw on the strengths of multilingual learners, partner with their families, and position these learners for success. Case studies and activities are included that provide a solid foundation for teachers' growth and exploration.

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