

# ESSENTIAL RESOURCES



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TEACHERS OF MATHEMATICS

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## NEW RELEASES, FEATURED & COMING SOON

NEW!

### CATALYZING CHANGE SERIES

#### Success Stories from Catalyzing Change



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

Experience the journeys  
of mathematics  
educators as they im-  
plement key recommen-  
dations from Catalyzing  
Change. These inspiring

stories highlight the challenges and successes  
of implementing equitable teaching practices in  
classrooms everywhere.



#### Early Childhood and Elementary Mathematics

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#### High School Mathematics

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NEW!

### MATHEMATICS LESSONS TO RESPOND TO SOCIAL INJUSTICE SERIES

The Mathematics Lessons to Explore, Under-  
stand, and Respond to Social Injustice series  
was written for teachers committed to develop-  
ing 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*

©2022 | Stock #16206 | 304 pp. | ISBN 978-1-07184-550-9  
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#### Upper Elementary

*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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## NEW RELEASES, FEATURED & COMING SOON

### NOTICE AND WONDER TEACHING SERIES

[nctm.org/noticeandwonder](http://nctm.org/noticeandwonder)

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

#### Winter Set Emojis

This set includes five Notice and five Wonder winter-themed emojis.



#### Fall Set Emojis

Update your online classroom with Acorn Notice and Football Wonder (shown) along with eight more autumnal emojis.



#### Notice and Wonder Emoji Set

Add Notice and Wonder to your classroom! This set of emojis includes 10 different moods for each character.



#### Notice and Wonder Logo Stickers

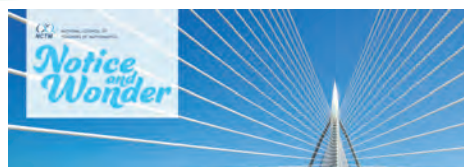
Download eight Notice and Wonder logo digital stickers and get a Notice the snail and Wonder the owl digital sticker as a bonus!



### ALSO

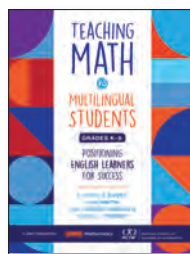
#### Multiplatform Backgrounds

Each set includes backgrounds for Canvas, Blackboard, Google Classroom, and Zoom.



### Teaching Math to Multilingual Students, Grades K–8

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

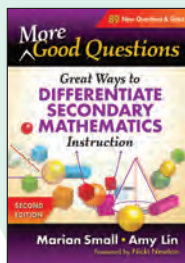


This guide offers practical approaches that equip K–8 teachers to draw on the strengths of multilingual learners, partner with their families, and position these learners for success. Case studies and activities are included that provide a solid foundation for teachers' growth and exploration.

© 2021 | Stock #16053 | 248 pp. | ISBN 978-1-07181-084-2  
Nonmember \$39.21 | **Essential \$29.41** | **Premium \$27.45**

### 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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Nonmember \$38.02 | **Essential \$28.52** | **Premium \$26.61**

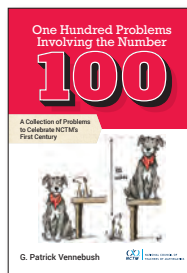
### One Hundred Problems Involving the Number 100

Available on Amazon Kindle

G. Patrick Vennebusch

These fun problems celebrate the “Goldilocks” charm of 100—a number not too small, not too large, but just right to challenge students without intimidating them. A range of mathematical topics from patterns, conversions, and sums and series to number theory, functions, probability and statistics, and geometry are covered.

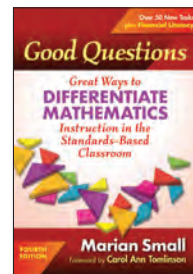
© 2020 | Stock #16002 | 187 pp. | ISBN 978-1-68054-065-9  
Nonmember \$33.92 | **Essential \$25.44** | **Premium \$23.74**



### COMING SOON!

**Student Book for One Hundred Problems Involving the Number 100**

### 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.

© 2020 | Stock #16054 | 146 pp. | ISBN 978-0-80776-466-4  
Nonmember \$41.59 | **Essential \$31.19** | **Premium \$29.11**

### ACTIVITY GEMS FOR THE CLASSROOM SERIES

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.

#### PK–2 Classroom

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#### 3–5 Classroom

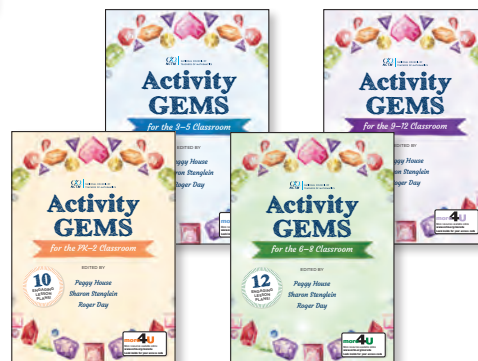
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#### 6–8 Classroom

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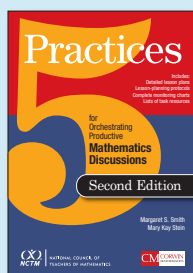
## FAVORITE TEACHER RESOURCES

### FIVE PRACTICES SERIES

#### 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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Nonmember \$37.76 | **Essential \$28.32** | **Premium \$26.43**

#### 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.

© 2013 | Stock #14576 | 130 pp. | ISBN 978-0-87353-745-2  
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

© 2019 | Stock #15936 | 240 pp. | ISBN 978-1-54432-113-4  
Nonmember \$39.21 | **Essential \$29.41** | **Premium \$27.45**

#### Successfully Orchestrating Mathematical Discussions in Your Middle School Classroom

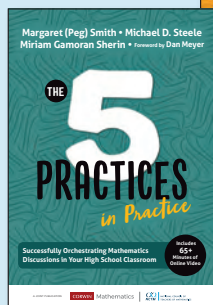
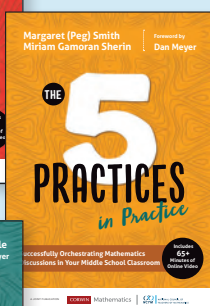
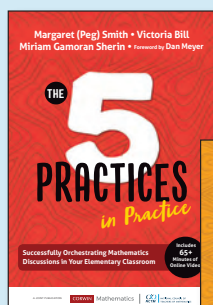
Margaret (Peg) Smith and Miriam Gamoran Sherin

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Nonmember \$39.21 | **Essential \$29.41** | **Premium \$27.45**

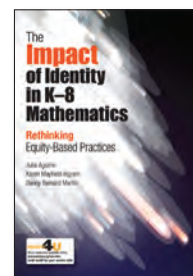
#### Successfully Orchestrating Mathematical Discussions in Your High School Classroom

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

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Nonmember \$39.21 | **Essential \$29.41** | **Premium \$27.45**



#### The Impact of Identity in K–8 Mathematics: Rethinking Equity-Based Practices



Julia Aguirre, Karen Mayfield-Ingram, and Danny Martin

This book invites K–8 teachers to reflect on their own and their students' multiple identities. Rich possibilities for learning result when teachers draw on these identities

to offer high-quality, equity-based teaching to all students. The authors encourage teachers to reframe instruction by using five equity-based mathematics teaching practices.

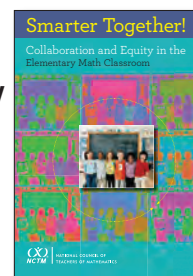
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#### Smarter Together! Collaboration and Equity in the Elementary Math Classroom

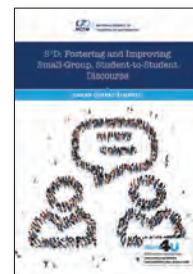
Helen Featherstone, Sandra Crespo, Lisa Jilk, Joy Oslund, Amy Parks, and Marcy Wood

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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Nonmember \$46.35 | **Essential \$34.76** | **Premium \$32.45**



#### S<sup>3</sup>D: Fostering and Improving Small-Group, Student-to-Student Discourse



Sarah Quebec Fuentes

Productive small-group work affords many opportunities for students to develop a deep understanding of mathematics. This book provides a step-by-step plan of action for creating a classroom in which small groups engage in their own deep mathematical

discourse—without the constant intervention of their teacher—and every student's voice is heard.

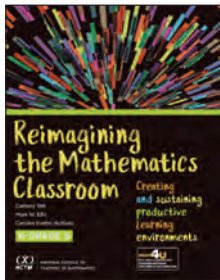
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## FAVORITE TEACHER RESOURCES

### Reimagining the Mathematics Classroom



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

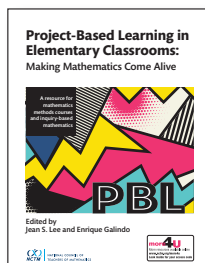
This book presents a comprehensive systems approach to examining mathematics teaching. It synthesizes and illustrates current research on the

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.

© 2017 | Stock #15000 | 160 pp. | ISBN 978-0-87353-908-1  
Nonmember \$33.26 | **Essential \$24.95** | **Premium \$23.28**

### Project-Based Learning in Elementary Classrooms: Making Mathematics Come Alive

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



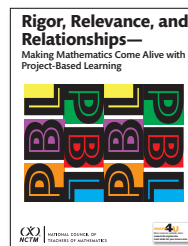
This book presents an overview of the essentials of project-based learning (PBL) and the evidence that supports the use of PBL. It showcases PBL units addressing the CCSS for Math for the purpose of demonstrating how PBL

works and the learning that results.

© 2021 | Stock # 16020 | 226 pp. | ISBN 978-1-68054-068-0  
Nonmember \$47.54 | **Essential \$35.66** | **Premium \$33.28**

### Rigor, Relevance, and Relationships: Making Mathematics Come Alive with Project-Based Learning

Edited by Jean S. Lee and Enrique Galindo



This book supplies teachers with a challenging and rewarding new way to deeply engage their students in secondary mathematics. *Rigor, Relevance, and Relationships* describes the nuts and bolts of designing an effective PBL unit, outlines how this method can help prepare students for future challenges in life and learning, and showcases a number of classroom-tested examples of PBL lessons.

© 2018 | Stock #14798 | 232 pp. | ISBN 978-0-87353-770-4  
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## TAKING ACTION SERIES

### 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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Nonmember \$35.32 | **Essential \$26.49** | **Premium \$24.72**



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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