

Number Talks: Helping Children Build Mental Math and Computation Strategies K-5

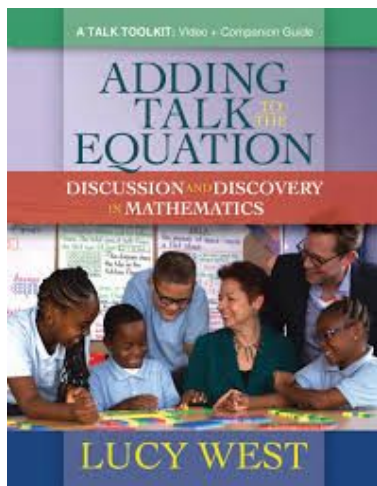
Sherry Parrish

Copies: 10

This resource was created in response to the requests of teachers those who want to implement number talks but are unsure of how to begin and those with experience who want more guidance in crafting purposeful problems. This dynamic multimedia resource supports teachers in understanding: what a classroom number talk is; how to follow students thinking and pose the right questions to build understanding; how to prepare for and design purposeful number talks; and how to develop grade-level-specific strategies for the operations of addition, subtraction, multiplication, and division.

Number Talks includes connections to NCTM's Principles and Standards for School Mathematics, as well as an abundance of reference tables to help you quickly and easily locate strategies, number talks, and video clips.

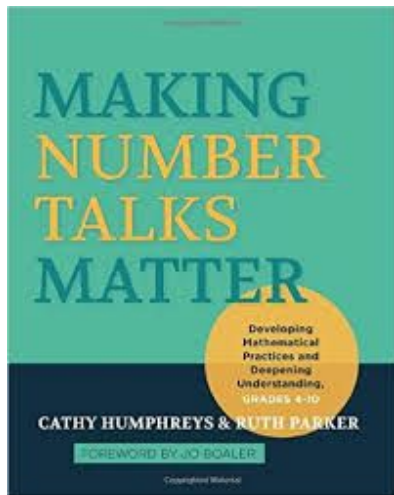
While the book may be used as an independent resource, it is also structured to provide a framework for collaborative learning groups or to provide professional development opportunities through grade-level teams, individual schools, or districts. Chapter 9 serves as a facilitator's resource, providing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



Adding Talk to the Equation: Discussion and Discovery in Math

Copies: 76

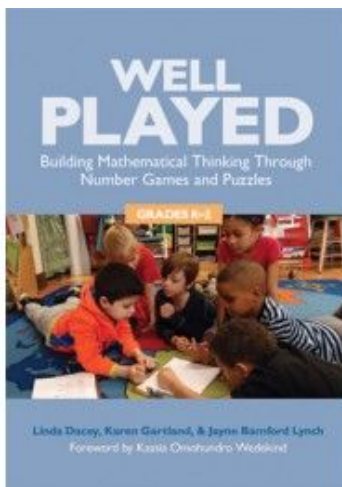
Adding Talk to the Equation helps teachers learn how to skillfully lead math conversations so all students stay in the game, stay motivated about learning, and ultimately deepen their understanding. Lucy emphasizes the progression that occurs as teachers get more comfortable with new talk moves and as they learn to tune in and respond to the math conversations taking place among their students. Although these discussions occur during math instruction, the strategies used to create an environment for respectful, productive discourse can be applied to any subject area. It examines the importance of creating a safe learning environment; the value of thinking, reasoning, and questioning; the role of active, accountable listening; and the necessity of giving all students a "You can do this" message. Lucy also emphasizes that slowing down, even in the face of time constraints, is crucial for creating a classroom where all students feel they have something to contribute. The 84-page companion guide includes transcripts of all of the case studies, with detailed commentary from Lucy that gives you a window into her thinking and the complexities of the work she is doing with teachers, as well as her reflections on missed opportunities.



Making Number Talks Matter

Copies: 7

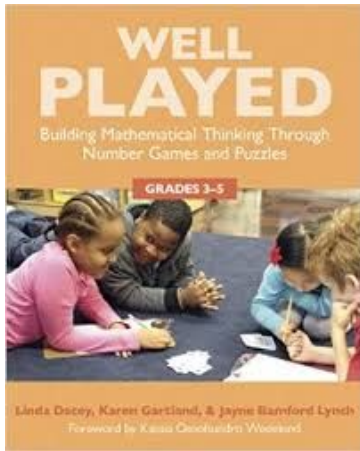
Making Number Talks Matter is about the myriad decisions facing teachers as they make this fifteen-minute daily routine a vibrant and vital part of their mathematics instruction. Throughout the book, Cathy Humphreys and Ruth Parker offer practical ideas for using Number Talks to help students learn to reason numerically and build a solid foundation for the study of mathematics. This book will be an invaluable resource whether you are already using Number Talks or not; whether you are an elementary, middle school, high school, or college teacher; or even if you are a parent wanting to support your child with mathematics. Using insight gained from many years of doing Number Talks with students of all ages, Cathy and Ruth address questions to ask during Number Talks, teacher moves that turn the thinking over to students, the mathematics behind the various strategies, and ways to overcome bumps in the road. If you've been looking for ways to transform your mathematics classroom to bring sense-making and divergent thinking to the foreground, to bring the Standards for Mathematical Practice to life, and to bring joy back into your instruction this book is for you.



Well Played: Building Mathematical Thinking Through Number Games and Puzzles Grades K-2

Copies: 4

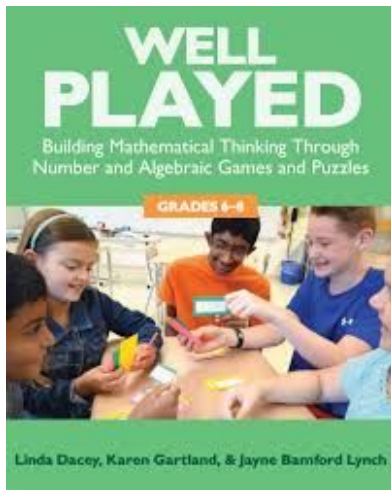
Students love math games and puzzles, but how much are they really learning from the experience? Too often, math games are thought of as just a fun activity or enrichment opportunity. *Well Played* shows you how to make games and puzzles an integral learning component that provides teachers with unique access to student thinking. The twenty-five games and puzzles in *Well Played*, which have all been field-tested in diverse classrooms, contain: explanations of the mathematical importance of each game or puzzle and how it supports student learning; variations for each game or puzzle to address a range of learning levels and styles; clear step-by-step directions; and classroom vignettes that model how best to introduce the featured game or puzzle. The book also includes a separate chapter with suggestions for how to effectively manage games and puzzles in diverse classrooms; reproducibles that provide directions, game boards, game cards, and puzzles; assessment ideas; and suggestions for online games, puzzles, and apps.



**Well Played: Building Mathematical Thinking Through
Number Games and Puzzles Grades 3-5**

Copies: 6

Well Played for grades 3–5 has chapters with games and puzzles addressing the mathematical concepts of base-ten numeration; addition and subtraction; multiplication and division; mixed operations; and fractions. Each chapter includes five games or puzzles and a section of online games and apps that address the concept. For each game or puzzle, authors Dacey, Gartland, and Lynch explain why it has been included, how to play the game, how it looks in a classroom setting, teacher look-fors, variations of the game, exit card ideas, and extension activities. The appendix includes all game boards and additional materials required to play the games.



**Well Played: Building Mathematical Thinking Through
Number and Algebraic Games and Puzzles Grades 6-8**

Copies: 3

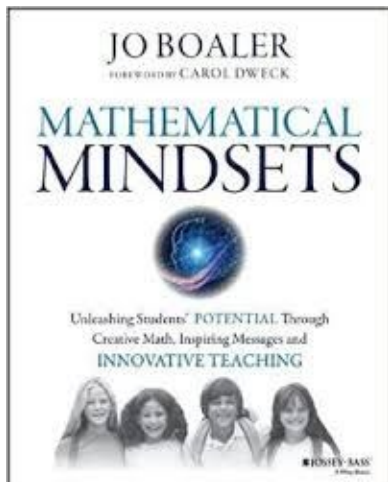
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**Principles To Actions: Ensuring Mathematical Success
For All**

Copies: 29

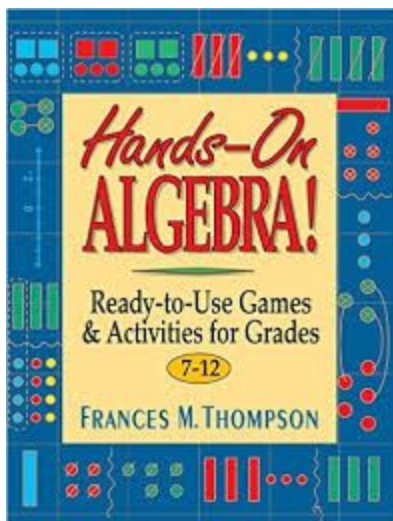
Principles to Actions: Ensuring Mathematical Success for All offers guidance to teachers, specialists, coaches, administrators, policymakers, and parents: It builds on the Principles articulated in Principles and Standards for School Mathematics to present six updated Guiding Principles for School Mathematics. It supports the first Guiding Principle, Teaching and Learning, with eight essential, research-based Mathematics Teaching Practices. It details the five remaining Principles—the Essential Elements that support Teaching and Learning as embodied in the Mathematics Teaching Practices. It identifies obstacles and unproductive and productive beliefs that all stakeholders must recognize, as well as the teacher and student actions that characterize effective teaching and learning aligned with the Mathematics Teaching Practices .



Mathematical Mindsets: Unleashing Students' Potential Through Creative Math, Inspiring Messages and Innovative Teaching

Copies: 27

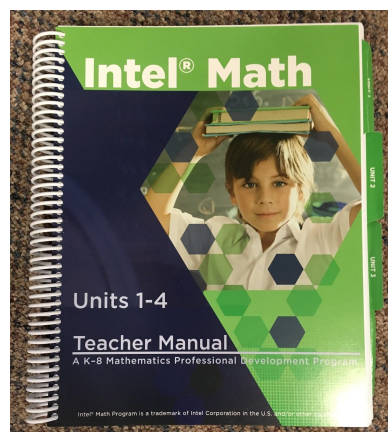
Mathematical Mindsets provides practical strategies and activities to help teachers and parents show all children, even those who are convinced that they are bad at math, that they can enjoy and succeed in math. Jo Boaler—Stanford researcher, professor of math education, and expert on math learning—has studied why students don't like math and often fail in math classes. There is a clear gap between what research has shown to work in teaching math and what happens in schools and at home. This book bridges that gap by turning research findings into practical activities and advice. Boaler reveals the steps that must be taken by schools and parents to improve math education for all.



Hands-On Algebra: Ready-to-Use Games & Activities for Grades 7-12

Copies: 18

Lay a solid foundation of algebra proficiency with over 155 hands-on games and activities. To complement the natural process of learning, each activity builds on the previous one-- from concrete to pictorial to abstract. Dr. Thompson's unique three-step approach encourages students to first recognize patterns; then use diagrams, tables, and graphs to illustrate algebraic concepts; and finally, apply what they've learned through cooperative games, puzzles, problems, and activities using a graphic calculator and computer. You'll find each activity has complete teacher directions, lists of materials needed, and helpful examples for discussion, homework, and quizzes. Most activities include time-saving reproducible worksheets for use with individual students, small groups, or the entire class. This ready-to-use resource contains materials sufficient for a two-semester course in Algebra I and can be adapted for advanced students as well as students with dyslexia.



Intel Math Sets: Teacher Manual & Answer Manual for 8 Units (Set of 4 books)

Copies: 13

The course is organized into eight units, each of which is comprised of 4 to 7 sessions. Intel Math teacher participants receive the two-volume Teacher Manual, in which each session focuses on mathematics content through a series of problems. Additionally, teacher participants receive an Answer Manual, which gives multiple solutions to each problem, and a Reference Manual, which expands on the philosophy and themes of Intel Math and offers supplemental readings.