

# Accessible Mathematics

## 10 Instructional Shifts That Raise Student Achievement



Steven Leinwand

# Accessible Mathematics Ten Instructional Shifts That Raise Student Achievement

**Bradley S. Witzel, Mary E. Little**



## **Accessible Mathematics Ten Instructional Shifts That Raise Student Achievement:**

**Accessible Mathematics** Steve Leinwand, 2009 Raising students math achievement doesn't mean ripping up your planning book and starting over. In *Accessible Mathematics*, Steven Leinwand, author of *Sensible Mathematics*, shows how small shifts in the good teaching you already do can make a big difference in student learning. Steve focuses on the crucial issue of classroom instruction. He scours the research and visits highly effective classrooms for practical examples of small adjustments to your teaching that lead to deeper student learning in math. Some of his 10 classroom-tested teaching shifts may surprise you, and others will validate your thinking. But all of them will improve your students' performance. Thoroughly practical and ever aware of the limits of teachers' time, Steve gives you everything you need to put his commonsense ideas to use immediately. His extensive planning advice will help you streamline your teaching to get more from everything you do. Classroom examples from every grade level model teaching language and instructional moves. And his suggestions for professional learning help increase your effectiveness through the power of collaboration. Steven Leinwand shares your priority: raising the mathematical understanding and achievement of every one of your students. Read *Accessible Mathematics*, try his 10 suggestions in your practice, and discover how minor shifts in your teaching can put student learning into high gear.

**Accessible Mathematics Book** Steven Leinwand, 2009-02-15 Book study groups and professional learning communities save when you order 15 copies of *Accessible Mathematics*. A \$255.00 value for \$216.75. Save 38.25. [Click here to learn more about Accessible Mathematics](#)

**Accessible Mathematics and Sensible Mathematics Bundle** Steven

Leinwand, 2009-04 *Teaching Elementary Mathematics to Struggling Learners* Bradley S. Witzel, Mary E. Little, 2016-01-25 Packed with effective instructional strategies, this book explores why certain K-5 students struggle with math and provides a framework for helping these learners succeed. The authors present empirically validated practices for supporting students with disabilities and others experiencing difficulties in specific areas of math, including problem solving, early numeracy, whole number operations, fractions, geometry, and algebra. Concrete examples, easy-to-implement lesson planning ideas, and connections to state standards, in particular the Common Core standards, enhance the book's utility. Also provided is invaluable guidance on planning and delivering multi-tiered instruction and intervention.

**Mathematizing Student**

**Thinking** David Costello, 2022-04-20 How can you broaden student thinking and help them develop their independence and confidence as problem solvers? Real-life problems are a remarkable tool to stretch student thinking and help them develop a deeper understanding of mathematics and its role in everyday life. Rather than using textbook exercises, the book argues that solving real-world problems promotes flexibility and encourages students to adjust and grow their thinking. It inspires them to consider alternatives and apply math in authentic contexts. You will find practical ways to engage students in critical thinking, develop their independence, and make connections with the world.

*Making Math Stick* David Costello, 2021-04-09 This remarkable book shows teachers how to stop working harder and start working smarter. It describes a shift from teach

test move on to teach connect apply to optimize student learning This valuable resource provides teachers with an understanding of simple manageable and sustainable strategies to change their approach immediately These strategies build on helping students retain math concepts so they can apply them in novel situations down the road The focus is on supporting teachers in framing instruction so that students strengthen their understanding and can remember and apply learning Making Math Stick is a game changer that champions durable learning for all students

**Evolving Learner** Lainie Rowell, Kristy Andre, Lauren Steinmann, 2020-02-19 Learn from Kids Peers and the World to Transform Professional Learning What can kids teach us about educational practices It turns out plenty PD is evolving into professional learning PL where personalized experiences focus on goals and outcomes rather than seat time In Evolving Learner successful PL is framed through three critical sources learning from kids from peers and from the world Woven throughout the book are tangible connections to cycles of inquiry where a harmonious balance is the ultimate goal when students are engaged in inquiry for deeper learning and teachers are engaged in a parallel process to improve their practice The authors unique framework shifts away from factory model PD and transforms it into experiences tailored to kids and adult learners specific needs Clear strategies for accomplishing PL are presented through A framework where both students and teachers are active agents of learning Cycles of inquiry to empower students to become the owners of learning Techniques to make thinking visible for teachers and students Cutting edge coverage of applying technology to professional learning including the use of social media gamification and digital badges The time is right to reclaim ownership of your professional learning Evolving Learner is an essential guide for embarking on this journey

**Faster Isn't Smarter** Cathy L. Seeley, 2009 Nctm Past President Cathy L Seeley shares her messages on today s most relevant topics and issues in education Based on Cathy L Seeley s award winning nctm President s Messages and including dozens of new messages this must have k 12 resource offers straight talk and common sense about some of today s most important thought provoking 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 This book contains 41 messages included in three sections 1 School Mathematics for the 21st Century Elementary and Secondary Mathematics in America 2 Great Ideas Whose Time Has Come and Gone Mathematics Issues Facing Schools and Districts and 3 Real Students and Real Teachers Mathematics in Today s Classroom This book also contains the following 1 Foreword by Marilyn Burns 2 Introduction 3 How to Use This Book 4 Afterword The Sum of the Parts Is Greater than Some of the Parts 5 Acknowledgments 6 Readings and References 7 Index and 8 About the Author

*Mathematics and Science for a Change* Iris R. Weiss, Joan Deters Pasley, 2009 Take advantage of what this volume offers You will be in a better position to make well informed decisions because you will be able to see the full sweep of what constitutes quality professional development for mathematics and science teachers Barbara Miller Education Development

Center Inc You've decided it's time for something different A new way to teach mathematics and science that supports higher achievement in all students And that means rethinking how you provide teacher professional development Sounds like a tough task but you've got a guide to doing it right Mathematics and Science for a Change collects the wisdom of successful initiatives into one concise guide to making successful change Mathematics and Science for a Change describes the lessons learned by effective National Science Foundation funded Local Systemic Change programs Iris Weiss and Joan Pasley support your initiative with key practices drawn from a careful examination of more than ten years of case histories and data With their observations you'll lay the groundwork for change by diagnosing your building or district needs and establishing a vision for high quality mathematics and science instruction that is consistent with national standards design professional development that achieves your goals by deepening teacher content knowledge modeling best practice instruction and encouraging more productive assessments launch and sustain your professional development model by identifying preparing and supporting PD providers then uncovering and nurturing leadership among your staff bolster your improvement effort by enlisting key school or district leaders partnering with the mathematics and science community outside your system and engaging the support of parents Weiss and Pasley fill Mathematics and Science for a Change with on the ground advice and the specific strategies of top initiatives around the country Everything in their book helps you smoothly meet the most important objective of any change program helping every student learn mathematics and science better The Math Tutor's Handbook Steven Leinwand, Caroline Welty, 2024-10-30 Boost confidence reduce anxiety and spark those aha moments for students through effective math tutoring Filled with research backed guidance for tutors to ensure students develop the confidence and skills they need The Math Tutor's Handbook Strategies and Tips for Success is the ultimate guide for effective math tutoring As national data suggest that students are falling behind in mathematics performance the role of the math tutor is more critical than ever before The authors bring decades of wisdom and know how to the tutoring table Steve Leinwand a renowned leader in math education and Caroline Welty a sought after tutor who brings current insight into today's learners have blended their collective experience into a comprehensive handbook that offers clear guidance for effective tutoring in grades K-12 mathematics With their conversational style the authors provide hands on resources to help diagnose individuals mathematical strengths and needs to make sure that each tutoring session carries the necessary impact Through a range of activities checklists examples stories and suggestions this handbook Focuses on the importance of personalized instruction that no computer program can match Describes how to develop strong supportive relationships between tutor and student Identifies common stumbling blocks around the big ideas in mathematics across grade levels and suggests how to overcome them Celebrates mistakes as valuable learning opportunities to foster a deeper comprehension of mathematical concepts rather than just getting the right answer Promotes skills needed for the future such as problem solving and critical thinking which are beneficial not only in future math classes but also in various aspects of life and work Let The Math Tutor's

Handbook empower you to create a positive learning environment for your students and help them boost self confidence reduce math anxiety and master essential skills Whether you are a private tutor or parent you work in a tutoring center or you are an in school K 12 math teacher coach or specialist this is the resource you need for the math tutoring strategies and practices that are foundational to successful learning **Education, Research and Perspectives** ,2004 **Quantitative Literacy** Bernard L. Madison,Lynn Arthur Steen,2003 **ACE Bulletin** ,1994 **The New York Times Index** ,1999

Making Mathematics Accessible to English Learners ,2009 This practical book helps middle and high school mathematics teachers effectively reach English learners in their classrooms Designed for teachers who have had limited preparation for teaching mathematics to English learners the guide offers an integrated approach to teaching mathematics content and English language skills including guidance on best instructional practices from the field powerful and concrete strategies for teaching mathematics content along with academic language and sample lesson scenarios that can be implemented immediately in any mathematics class It includes Rubrics to help teachers identify the most important language skills at five ELD levels Practical guidance and tips from the field Seven scaffolding strategies for differentiating instruction Seven tools to promote mathematical language Assessment techniques and accommodations to lower communication barriers for English learners Three integrated lesson scenarios demonstrating how to combine and embed these various strategies tools techniques and approaches Chapter topics include teaching inquiry based mathematics understanding first and second language development teaching the language of mathematics scaffolding mathematics learning and applying strategies in the classroom *Math Instruction for Students with Learning Problems* Susan Perry Gurganus,2017-02-24 Math Instruction for Students with Learning Problems Second Edition provides a research based approach to mathematics instruction designed to build confidence and competence in pre and in service PreK 12 teachers This core textbook addresses teacher and student attitudes toward mathematics as well as language issues specific mathematics disabilities prior experiences and cognitive and metacognitive factors The material is rich with opportunities for class activities and field extensions and the second edition has been fully updated to reference both NCTM and CCSSM standards throughout the text and includes an entirely new chapter on measurement and data analysis Making Math Accessible to English Language Learners (Grades 6-8) r4Educated Solutions,2011-12-30 Making Math Accessible for English Language Learners provides practical classroom tips and suggestions to strengthen the quality of classroom instruction for teachers of mathematics The tips and suggestions are based on research in practices and strategies that address the affective linguistic and cognitive needs of English language learners **Making Sense of Mathematics for Teaching the Small Group** Juli K. Dixon,Lisa A. Brooks,Melissa R. Carli,2018-07-06 When done right small group instruction is a powerful tool for facilitating student understanding in K 5 mathematics Throughout the book best practices for small group math instruction are addressed in detail from planning tasks that encourage deep understanding to asking effective questions to engaging learners in meaningful conversations

Readers will learn how teaching mathematics in small groups allows you to differentiate instruction for both remediation and enrichment The included small group instruction videos demonstrate the suggested strategies in a real classroom setting giving readers the opportunity to see best practice in action Develop math specific instruction strategies for teaching small groups in elementary school Explore the benefits of small group math activities and how these activities are unique compared to large group instruction Discover the teacher s and students roles in small group instruction and how teachers can help students develop the skills to fulfill their role Learn how to apply the general tasks questions and evidence TQE process to small group instruction in order to enhance student learning and improve your knowledge of teaching mathematics View examples of small group instruction which provide both math intervention and math enrichment activities for different students Contents Acknowledgments Table of Contents About the Authors Introduction Chapter 1 Best Practices in Small Group Instruction Chapter 2 The TQE Process in Small Group Instruction Chapter 3 Discourse in Small Group Instruction Epilogue How to Tie It All Together References Index

**Styles and Strategies for Teaching Middle School Mathematics** Edward J. Thomas,John R. Brunsting,2010-03-30 Mathematics teachers face many challenges in today s classrooms including issues such as higher standards differentiation real world applications non routine problem solving and more Here the authors explore which research based strategies are most effective for delivering math instruction

A *PRACTICAL APPROACH TO USING LEARNING STYLES IN MATH INSTRUCTION* Ruby Bostick Midkiff,Rebecca Davis Thomasson,1994-01-01 Although much attention has been given to the use of learning styles in the general curriculum and in teaching students to read the use of learning styles based instruction in the mathematics classroom has received limited attention Therefore the purpose of this book is to address the improvement of mathematics instruction through the use of learning styles based instruction Its goals are to give the reader an understanding of learning styles based instruction in mathematics of effective use of manipulatives in teaching various concepts at all grade levels of ways to develop spatial reasoning skills in students of different activities which accommodate a variety of learning styles and of authentic assessment in mathematics The book presents the use of learning styles based instruction as a powerful strategy which teachers can and should use with the result that teaching will be more effective less remediation will be necessary and the overall mathematics curriculum will be enhanced

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