

Jessica F. Shumway

NUMBER SENSE ROUTINES

Building Numerical
Literacy Every Day
in Grades **K-3**

Foreword by Lucy West

**Number Sense Routines: Building Numerical Literacy Every Day
in Grades K-3**

Number Sense Routines Building Numerical Literacy Every Day In Grades K 3

Erin Anderson, Sonya D. Hayes



Number Sense Routines Building Numerical Literacy Every Day In Grades K 3:

Number Sense Routines Jessica F. Shumway, 2018 Upper elementary teachers have a big job to help students deepen their mathematical understanding and become more efficient mathematicians *Number Sense Routines Developing Mathematical Understanding Every Day in Grades 3 5* is about tapping into every child's innate number sense and providing daily connected experiences that are responsive to children's learning needs Through familiar five ten or fifteen minute warm up routines author Jessica Shumway offers both beginner and veteran teachers easy and effective ways to build and solidify students number sense foundations No matter how familiar the routine Jessica infuses each with new joy depth and life She reveals the careful thinking and planning that goes into each routine and provides detailed vignettes and dialogues of how they unfold in real classrooms She gives teachers a clear view into her nuanced facilitation Each routine becomes an exciting opportunity to understand where students are in their understanding and to help students articulate and extend their mathematical thinking Not only will these routines help develop students mathematical understanding as they move towards using standard algorithms but teachers will learn to better recognize the big ideas that emerge in discussions how to encourage important strategies based in number sense and how to facilitate discussions on key mathematical concepts

Number Sense Routines Jessica Shumway, 2023-10-10 In this groundbreaking and highly practical book *Number Sense Routines Building Numerical Literacy Every Day in Grades K 3* author Jessica Shumway proposes that all children have innate number sense which can be developed through daily exercise Shumway created a series of math routines designed to help young students strengthen and build their facility with numbers These quick 5 10 or 15 minute exercises are easy to implement as an add on to any elementary math curriculum *Understanding Number Sense* Students with strong number sense understand numbers how to subitize relationships among numbers and number systems They make reasonable estimates compute fluently use reasoning strategies and use visual models to solve problems *Number Sense Routines* supports the early learner by instilling the importance of daily warm ups and explains how they benefit developing math minds for long term learning *Real Classroom Examples* Shumway compiled her classroom observations from around the country She includes conversations among students who practice number sense routines to illustrate them in action how children's number sense develops with daily use and math strategies students learn as they develop their numerical literacy through self-paced practice *Assessment Strategies* *Number Sense Routines* demonstrates the importance of listening to your students and knowing what to look for Teachers will gain a deeper understanding of the underlying math skills and strategies students learn as they develop numerical literacy Shumway writes As you read you will step into various classrooms and listen in on students conversations which I hope will give you insight into the power of number sense routines and the impact they have on students number sense development My hope is that going into the classroom into students conversations and into their thought processes you will come away with new ideas and tools to use in your own classroom **Number Sense**

Routines Jessica Shumway,2023-10-10 Following up her best selling book Number Sense Routines Building Numerical Literacy Every Day in Grades K 3 Jessica Shumway turns her focus to upper elementary classrooms Number Sense Routines Developing Mathematical Understanding Every Day in Grades 3 5 is about tapping into every child s innate number sense and providing daily connected experiences that are responsive to children s learning needs Consistent Daily Routines Work Adaptable to any curriculum Shumway s 5 10 or 15 minute warm up routines are an easy and effective way to build and solidify students number sense foundations as a supplement to any program Planning and Facilitating Your Classroom No matter how familiar the routine Shumway provides insight on how to keep daily warm ups fresh She reveals careful thinking and planning that goes into each routine and offers detailed vignettes and dialogues of how they unfold in real classrooms Assessment Strategies As students engage in the process each routine becomes an exciting opportunity to gain insight into where they are in their understanding and help students articulate their mathematical thinking Identify Big Ideas Not only will these math routines help develop students mathematical understanding as they move towards using standard algorithms but teachers will learn to better recognize the big ideas that emerge in discussions how to encourage important strategies based in number sense and how to facilitate conversations on key mathematical concepts These routines may appear in other places but I have never seen them written in such detail and with so many variations Although she makes what she does sound easy we all know that teaching math well is anything but easy It is challenging and complex Unpacking what students are saying helping them make connections not only to the math but to each other s ideas while simultaneously recording their ideas using mathematical models visuals or equations is no easy task Jessica provides wonderful visuals examples of student work and so much more to help educators develop the tools they need to improve their practice and in so doing improve student learning From the Foreword by math coach and consultant Lucy West Number Sense Routines Jessica F. Shumway,2023 Jessica Shumway has developed a series of routines designed to help young students internalize and deepen their facility with numbers The daily use of these quick five ten or fifteen minute experiences at the beginning of math class will help build students number sense from publisher description **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 SNAP Solution Kirk Savage,Jonathan Ferris,Tom Hierck,2024-07-02 Changing students attitudes about math and assessing number sense begins with shifting the teacher s attitude and approach Learn how the authors dispel the common myth that student apathy in mathematics class is inevitable

Math teachers can use the student numeracy assessment and practice SNAP approach to address the five strands of mathematical proficiency promote thinking and ignite a sense of wonder in their students K 8 teachers can utilize this book to Use the SNAP approach to help students learn number sense Address each SNAP skill from kindergarten primary and intermediate teachers perspectives Apply the SNAP method within the response to intervention model Learn the five strands of mathematical proficiency aligned with each SNAP skill Access templates and other resources Contents Introduction Chapter 1 Exploring the SNAP Chapter 2 Looking at Number Sense Foundations Chapter 3 Understanding the Five Strands of Mathematical Proficiency Chapter 4 Implementing the SNAP With Beginning Mathematicians Chapter 5 Understanding How SNAP Supports Response to Intervention Chapter 6 Rubrics Assessment and Competency Based Learning Chapter 7 School and District Implementation Epilogue Final Word Appendix Resources to Support Number Sense References and Resources Index

A Practical Guide to Exemplary Professional Development Schools Michael Cosenza,JoAnne Ferrara,Diane W. Gómez,2024-03-01 Professional Development Schools are complex and comprehensive school university partnerships focusing on professional development of new teachers and veteran teachers while providing high quality education to P 12 students The chapters of this book contain the stories of 8 highly successful and nationally recognized professional development schools Each story provides the reader with practical ideas procedures and policies that can be implemented by the reader to begin new partnerships or help improve and sustain existing partnerships Each chapter discusses the rich clinical preparation combined with progressive experiences in PDSs that have made the partnership successful The diverse authors from several different states describe their efforts to forge PDS partnerships to develop and deliver high quality teacher preparations practical experiences for teacher candidates and simultaneously provide professional development for experienced practitioners The book will be a valuable resource to school and university faculty and administrators as they transition to a partnering model of clinical preparation for teacher candidates it will help stakeholders decide if their schools and institutions are ready to commit to a partnership and highlight the benefits they stand to gain The book also realistically addresses challenges in a way the reader can prepare for to reduce obstacles in establishing and sustaining PDSs

Intentional Talk Elham Kazemi,Allison Hintz,2023-10-10 Math teachers know the first step to meaningful mathematics discussions is to ask students to share how they solved a problem and make their thinking visible however knowing where to go next can be a daunting task In *Intentional Talk How to Structure and Lead Productive Mathematical Discussions* authors Elham Kazemi and Allison Hintz provide teachers with a framework for planning and facilitating purposeful math talks that move group discussions to the next level while achieving a mathematical goal Through detailed vignettes from both primary and upper elementary classrooms the authors provide a window into how teachers lead discussions and make important pedagogical decisions along the way By creating equitable opportunities to share ideas teachers can orient students to one another while enforcing that all students are sense makers and their ideas are valued

They examine students roles as both listeners and talkers offering numerous strategies for improving student participation

Intentional Talk includes a collection of lesson planning templates in the appendix to help teachers apply the right structure to discussions in their own classrooms

Intentional Talk and Listening Elham Kazemi,Allison Hintz,2025-12-09 Math teachers know the first step to meaningful mathematics discussions is to ask students to share how they solved a problem and make their thinking visible however knowing where to go next can be a daunting task In *Intentional Talk and Listening How to Structure and Lead Productive Mathematical Discussions* Elham Kazemi and Allison Hintz provide teachers with a practical framework for planning and facilitating purposeful math talks that move group discussions to the next level while achieving mathematical and social goals Each chapter focuses on a different type of conversation including Open Strategy Sharing Compare and Connect Why Let s Justify What s Strategic and Why Define and Clarify Troubleshoot and Revise In this second edition of the book Kazemi and Hintz provide new vignettes and classroom examples They explore the role of children s and communities funds of knowledge in mathematics problem solving and focus on supporting students active participation as listeners and speakers Written from the stance that all students are sense makers with valuable ideas *Intentional Talk and Listening* supports teachers decision making as they facilitate conversations that help students make meaning of and find joy in math

Early Childhood Math Routines Antonia Cameron,Patricia Gallahue,Danielle Iacoviello,2023-10-10 One of the many challenges facing early childhood teachers is how to meet academic standards while creating learning environments that honor young children s mathematical curiosity In *Early Childhood Math Routines Empowering Young Minds to Think* author Toni Cameron introduces us to a set of short whole group and partner routines designed to engage young children in meaningful math thinking and build problem solving communities With contributions from Patricia Gallahue and Danielle Iacoviello Cameron reimagines traditional math routines and introduces brand new routines that focus on the important mathematical ideas of early childhood Through stories classroom examples and resources Cameron offers you the tools to get started right away with these routines Inside you ll find the following resources Innovative routines of student teacher dialogue and teaching analysis to support you in planning and facilitating Clear explanations of the big mathematical ideas in early childhood math Access to a robust companion website which includes downloadable and printable cards gameboards over 30 slide decks for facilitating routines additional practice routines supplemental readings and a place value interview assessment A day by day suggested planning guide to introducing and developing each routine in your classroom Learn from Cameron s experience supporting the complexities of early childhood mathematics while also building communities that foster social emotional and cognitive development in young children Get the tools and routines that will help you connect children to mathematics in a way that is exciting and powerful

[6 Tools for Collaborative Mathematics Coaching](#) Nicora Placa,2023-10-10 In *6 Tools for Collaborative Mathematics Coaching* Nicora Placa lays out a clear path to help you become a trusted and effective math coach Her 6 Tools are flexible structures that you and your colleagues can use to learn together

Building Teams Fostering a Learning Community Student Interviews Learning to Listen Visiting Classrooms Developing Your Lens Learning Walks Focusing the Team on Students Thinking Rehearsing Routines Practicing with Colleagues Lesson Study Learning Collectively with Voice Choice and Agency In this easy to use practical guide Placa introduces each of the 6 Tools with classroom vignettes step by step guidelines for rollout connections to the literature resources for further research planning templates and opportunities for you to adapt the tool for your particular context Whether you re a new coach who loves teaching math to children but is new to adult education or a more experienced coach who is looking for new strategies to engage your teams 6 Tools for Collaborative Mathematics Coaching can help you create learning opportunities that honor teachers as professionals With a collaborative coaching approach you can improve teaching and learning across your school and for all your students There s so much to love about how 6 Tools is constructed Elham Kazemi **Academic Language in Diverse Classrooms: Mathematics, Grades K-2** Margo Gottlieb, Gisela Ernst-Slavit, 2013-02-27 Help your students unlock important mathematical concepts If you ve ever watched a student struggle with learning math concepts you know that academic English can sometimes create stumbling blocks to understanding To grasp complicated concepts build skills and demonstrate achievement students need to master academic language in math The Common Core and ELD standards provide pathways to academic success through academic language Using an integrated Curricular Framework districts schools and professional learning communities can Design and implement thematic units for learning Draw from content and language standards to set targets for all students Examine standards centered materials for academic language Collaborate in planning instruction and assessment within and across lessons Consider linguistic and cultural resources of the students Create differentiated content and language objectives Delve deeply into instructional strategies involving academic language Reflect on teaching and learning Each grade specific chapter models the types of interactions and learning experiences that help students master both math content and academic language This essential book shows you why mastery of academic language is the key to students academic success With growing numbers of English Language Learners in our classrooms teachers need to be able to help students as they learn academic vocabulary and concepts This series offers teachers a practical support complete with abundant rubrics and detailed plans for teaching math vocabulary Renee Peoples Teacher Swain County Schools Bryson City NC *A Focus on Addition and Subtraction* Caroline Ebby, Elizabeth Hulbert, Rachel Broadhead, 2020-11-23 This innovative text offers a unique approach to making mathematics education research on addition subtraction and number concepts readily accessible and understandable to pre service and in service teachers of grades K 3 Revealing students thought processes with extensive annotated samples of student work and vignettes characteristic of teachers experiences this book provides educators with the knowledge and tools needed to modify their lessons and improve student learning of additive reasoning in the primary grades Based on research gathered in the Ongoing Assessment Project OGAP this engaging easy to use resource features practical resources such as A close focus on student work including 150

annotated pieces of student work to help teachers improve their ability to recognize assess and monitor their students errors and misconceptions as well as their developing conceptual understanding A focus on the OGAP Addition Subtraction and Base Ten Number Progressions based on research conducted with hundreds of teachers and thousands of pieces of student work In chapter sections on how Common Core State Standards for Math CCSSM are supported by math education research End of chapter questions to allow teachers to analyze student thinking and consider instructional strategies for their own students Instructional links to help teachers relate concepts from each chapter to their own instructional materials and programs An accompanying eResource available online offers an answer key to Looking Back questions as well as a copy of the OGAP Additive Framework and the OGAP Number Line Continuum A Focus on Addition and Subtraction marks the fourth installment of the popular A Focus on collection designed to aid the professional development of pre service and in service mathematics teachers Following from previous volumes on ratios and proportions multiplication and division and fractions this newest addition is designed to bridge the gap between what math education researchers know and what teachers need to know in order to better understand evidence in student work and make effective instructional decisions

Classroom-Ready Number Talks for Third, Fourth and Fifth Grade Teachers Nancy Hughes, 2018-03-12 A huge collection of ready to use number talks that make math concepts easier for students to learn Whether you re new to number talks or have been using them in your classroom for years this book makes it easier than ever for your students to experience this exciting teaching method Instead of trying to come up with a new number talk every day simply select one of the hundreds of great offerings provided in this book With chapters on addition subtraction multiplication division fractions and decimals Classroom Ready Number Talks for 3rd 4th and 5th Grade Teachers includes Grade level specific strategies Number talk how tos Visual and numerical examples Scaffolding suggestions Common core alignments Questions to build understanding With these ready to use number talks you ll reduce time spent lesson planning and enjoy more time discussing math with your students It s sure to create a more engaging environment in your classroom and increase student comprehension of math concepts and how numbers function in the world around them

Becoming the Math Teacher You Wish You'd Had

Tracy Johnston Zager, 2023-10-10 Ask mathematicians to describe mathematics and they ll use words like playful beautiful and creative Pose the same question to students and many will use words like boring useless and even humiliating Becoming the Math Teacher You Wish You d Had author Tracy Zager helps teachers close this gap by making math class more like mathematics Zager has spent years working with highly skilled math teachers in a diverse range of settings and grades and has compiled those ideas from these vibrant classrooms into this game changing book Inside you ll find How to Teach Student Centered Mathematics Zager outlines a problem solving approach to mathematics for elementary and middle school educators looking for new ways to inspire student learning Big Ideas Practical Application This math book contains dozens of practical and accessible teaching techniques that focus on fundamental math concepts including strategies that simulate

connection of big ideas rich tasks that encourage students to wonder generalize hypothesize and persevere and routines to teach students how to collaborate Becoming the Math Teacher You Wish You d Had offers fresh perspectives on common challenges from formative assessment to classroom management for elementary and middle school teachers No matter what level of math class you teach Zager will coach you along chapter by chapter All teachers can move towards increasingly authentic and delightful mathematics teaching and learning This important book helps develop instructional techniques that will make the math classes we teach so much better than the math classes we took **What's Math Got to Do with It?** Jo Boaler, 2015-04-28 Highly accessible and enjoyable for readers who love and loathe math Booklist A critical read for teachers and parents who want to improve children s mathematics learning What s Math Got to Do with It is an inspiring resource Publishers Weekly Featuring all the important advice and suggestions in the original edition of What s Math Got to Do with It this revised edition is now updated with new research on the brain and mathematics that is revolutionizing scientists understanding of learning and potential As always Jo Boaler presents research findings through practical ideas that can be used in classrooms and homes The new What s Math Got to Do with It prepares teachers and parents for the Common Core shares Boaler s work on ways to teach mathematics for a growth mindset and includes a range of advice to inspire teachers and parents to give their students the best mathematical experience possible **Growing Mathematical Minds** Jennifer S. McCray, Jie-Qi Chen, Janet Eisenband Sorkin, 2018-09-03 Growing Mathematical Minds is the documentation of an innovative bi directional process of connecting research and practice in early childhood mathematics The book translates research on early mathematics from developmental psychology into terms that are meaningful to teachers and readily applicable in early childhood classrooms It documents teacher responses and conveys their thoughts and questions back to representative researchers who reply in turn In so doing this highly useful book creates a conversation in which researchers and teachers each bring their expertise to bear their communication about these topics informed by the thinking commitment and experience of both groups helps us better understand how developmental psychology can improve math teaching and how math teaching can in turn inform developmental science The book bridges the gap between research and practice helping teachers to adopt evidence based practices and apply cutting edge research findings and prompting developmental researchers to consider their work within the framework of practice Growing Mathematical Minds identifies and elucidates research with profound implications for teaching children from three to eight years so they develop foundational math knowledge and skills positive attitudes toward math and basic abilities to think mathematically Continuous Improvement Erin Anderson, Sonya D. Hayes, 2023-09-01 Through this book we seek to describe improvement science in action for educators schools districts universities and communities This book is a venue for improvement research in education focused on the application of improvement science in educational settings Improvement science requires extensive engagement in rigorous work to implement sustainable change at a systemic level As the editors of this volume for the Leadership in School

Improvement SIG book series we hope that these chapters written by researchers practitioners and leaders engaged in improvement science will help others begin their own improvement processes to achieve desired equitable and sustainable results for student success

ENDORSEMENTS

Continuous Improvement A Leadership Process for School Improvement brings together an impressive group of fieldleading improvement scholars with deep connections to educational practice to provide a powerful vision for what equity centered improvement science looks like in action The stories of improvement partnership and critical enabling conditions provide theoretically sound and practically useful guidance for anyone seeking to transform education organizations in service of more equitable learning opportunities for students Jennifer Lin Russell Vanderbilt Peabody College This is a moment of empowerment in education with movements for social justice and continuous improvement providing motivations and methods to interrogate disrupt and rebuild education systems to support the holistic development of all students This essential book provides compelling accounts of what it looks like and what is possible when educational professionals researchers and other stakeholders come together to seize this moment Donald Peurach University of Michigan s School of Education and Carnegie Foundation

Let's Play Math Denise Gaskins,2012-09-04

We Reason & We Prove for ALL Mathematics Fran Arbaugh,Margaret (Peg) Smith,Justin Boyle,Gabriel J. Stylianides,Michael Steele,2018-08-08

Sharpen concrete teaching strategies that empower students to reason and prove How do teachers and students benefit from engaging in reasoning and proving What strategies can teachers use to support students capacity to reason and prove What does reasoning and proving instruction look like

We Reason We Prove for ALL Mathematics helps mathematics teachers in grades 6 12 engage in the critical practice of reasoning and proving and support the development of reasoning and proving in their students The phrase reasoning and proving describes the processes of identifying patterns making conjectures and providing arguments that may or may not qualify as proofs processes that reflect the work of mathematicians Going beyond the idea of formal proof traditionally relegated only to geometry this book transcends all mathematical content areas with a variety of activities for teachers to learn more about reasoning and proving and about how to support students capacities to engage in this mathematical thinking through Solving and discussing high level mathematical tasks Analyzing narrative cases that make the relationship between teaching and learning salient Examining and interpreting student work that features a range of solution strategies representations and misconceptions Modifying tasks from curriculum materials so that they better support students to reason and prove Evaluating learning environments and making connections between key ideas about reasoning and proving and teaching strategies

We Reason We Prove for ALL Mathematics is designed as a learning tool for practicing and pre service mathematics teachers and can be used individually or in a group No other book tackles reasoning and proving with such breadth depth and practical applicability Classroom examples case studies and sample problems help to sharpen concrete teaching strategies that empower students to reason and prove

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