

A Series for Teaching Mathematics

Developing
**Essential
Understanding**
of

Multiplication and Division

Grades 3–5



NATIONAL COUNCIL OF
TEACHERS OF MATHEMATICS

Developing Essential Understanding Of Multiplication And Division For Teaching Mathematics In Grades 3 5

Amy B. Ellis, Kristen Bieda, Eric J. Knuth



Developing Essential Understanding Of Multiplication And Division For Teaching Mathematics In Grades 3 5:

Developing Essential Understanding of Multiplication and Division for Teaching Mathematics in Grades 3-5

Albert Dean Otto, 2011 Unpacking the ideas related to multiplication and division is a critical step in developing a deeper understanding. To those without specialised training many of these ideas might appear to be easy to teach. But those who teach in grades 3-5 are aware of their subtleties and complexities. This book identifies and examines two big ideas and related essential understandings for teaching multiplication and division in grades 3-5. Big Idea 1 captures the notion that multiplication is usefully defined as a scalar operation. Problem situations modelled by multiplication have an element that represents the scalar and an element that represents the quantity to which the scalar applies. Big Idea 2 relates to the algorithms that problem solvers have invented, some of which have become standard for multiplying and dividing. The authors examine the ways in which counting, adding and subtracting lead to multiplication and division, as well as the role that these operations play in algebraic expressions and other advanced topics. The book examines challenges in teaching, learning and assessment and is interspersed with questions for teachers' reflection.

The Mathematics Lesson-Planning Handbook, Grades 3-5 Ruth Harbin Miles, Beth McCord Kobett, Lois A. Williams, 2018-07-13 This book brings together the best of Visible Learning and the teaching of mathematics. The chapters on learning intentions, success criteria, misconceptions, formative evaluation and knowing thy impact are stunning. Rich in exemplars grounded in research about practice and with the right balance about the surface and deep learning in math, it's a great go-to book for all who teach mathematics. John Hattie, Laureate Professor, Deputy Dean of MGSE, Director of the Melbourne Education Research Institute, Melbourne Graduate School of Education. YOU are the architect in the mathematics classroom. When it comes to mathematics lessons, do you sometimes feel overly beholden to the required texts from which you teach? Do you wish you could break the mold but feel like you get conflicting guidance on the right things to do? How often do you find yourself in the last minute online scramble for a great task/activity that will capture your students' interest and align to your state standards? In *The Mathematics Lesson Planning Handbook: Grades 3-5 Your Blueprint for Building Cohesive Lessons*, you'll learn the streamlined decision-making processes that will help you plan the focused, research-based, standards-aligned lessons your students need. This daily reference offers practical guidance for when and how to pull together mathematics routines, resources and effective teaching techniques into a coherent and manageable set of lesson plans. This resource will lead teachers through a process of lesson planning based on various learning objectives. Set the stage for lesson planning using relatable vignettes. Offer sample lesson plans for Grades 3-5. Create opportunities to reflect on each component of a mathematics lesson. Suggest next steps for building a unit from the lessons. Provide teachers the space and tools to create their own lesson plans going forward. Based on years of classroom experience from seasoned mathematics educators, this book brings together the just-in-time resources and practical advice you need to make lesson planning simple, practical and doable. From laying a solid foundation to choosing the

right materials you'll feel confident structuring lessons that lead to high student achievement *Planting the Seeds of Algebra, 3-5* Monica Neagoy, 2014-12-23 *Planting the Seeds of Algebra 3-5* will empower teachers with theoretical and practical knowledge about both the content and pedagogy of algebraic instruction and shows them the different faces of algebra as it appears in the early grades [Putting Essential Understanding of Multiplication and Division Into Practice in Grades 3-5](#) John Lannin, Kathryn Bouchard Chval, Dusty Jones, 2013-01-01 Do your students believe that division doesn't make sense if the divisor is greater than the dividend? Explore rich researched-based strategies and tasks that show how students are reasoning about and making sense of multiplication and division. This book focuses on the specialised pedagogical content knowledge that you need to teach multiplication and division effectively in grades 3-5. The authors demonstrate how to use this multifaceted knowledge to address the big ideas and essential understandings that students must develop for success with these computations not only in their current work but also in higher level maths and a myriad of real world contexts. Explore rich research-based strategies and tasks that show how students are reasoning about and making sense of multiplication and division. Use the opportunities that these and similar tasks provide to build on their understanding while identifying and correcting misunderstandings that may be keeping them from taking the next steps in learning. About the Series: You have essential understanding. It's time to put it into practice in your teaching. The *Putting Essential Understanding into Practice* Series moves NCTM's Essential Understanding Series into the classroom. The new series details and explores best practices for teaching the essential ideas that students must grasp about fundamental topics in mathematics topics that are challenging to learn and teach but are critical to the development of mathematical understanding. Classroom vignettes and samples of student work bring each topic to life and questions for reader reflection open it up for hands-on exploration. Each volume underscores connections with the Common Core State Standards for Mathematics while highlighting the knowledge of learners' curriculum understanding into practice instructional strategies and assessment that pedagogical content knowledge entails. Maximise the potential of student-centred learning and teaching by putting essential understanding into practice **Developing Essential Understanding of Proof and Proving for Teaching Mathematics in Grades 9-12** Amy B. Ellis, Kristen Bieda, Eric J. Knuth, 2012 Focuses on essential knowledge for teachers about proof and the process of proving. It is organised around five big ideas supported by multiple smaller interconnected ideas essential understandings. Taking you beyond a simple introduction to proof and the activities involved in proving, the book will broaden and deepen your mathematical understanding of one of the most challenging topics for students and teachers [Your Mathematics Standards Companion, Grades 3-5](#) Linda M. Gojak, Ruth Harbin Miles, 2017-05-17 Transforming the standards into learning outcomes just got a lot easier. In this resource you can see in an instant how teaching to your state standards should look and sound in the classroom. Under the premise that math is math, the authors provide a Cross Referencing Index for states implementing their own specific mathematics standards allowing you to see and understand which page number to

turn to for standards based teaching ideas It s all here page by page The mathematics embedded in each standard for a deeper understanding of the content Examples of what effective teaching and learning look like in the classroom Connected standards within each domain so teachers can better appreciate how they relate Priorities within clusters so teachers know where to focus their time The three components of rigor conceptual understanding procedural skills and applications Vocabulary and suggested materials for each grade level band with explicit connections to the standards Common student misconceptions around key mathematical ideas with ways to address them Sample lesson plans and lesson planning templates Cross referenced index listing the standards in the following states explaining what is unique to the standards of each state Your Mathematics Standards Companion is your one stop guide for teaching planning assessing collaborating and designing powerful mathematics curriculum **Numeracy and Learning Difficulties** Peter Westwood,2016-09-01

Numeracy and Learning Difficulties provides guidance on how to develop flexible teaching methods and strategies to improve mathematical skills of students It discusses common areas of learning difficulty in mathematics and looks at ways teachers can determine gaps in students knowledge as well as how to develop curricula and problem solving strategies to address these gaps Unpacking Fractions Monica Neagoy,2017-03-10 For years the teaching and learning of fractions has been associated with rote memorization But this mechanical approach to instruction which strips students of an ability to reason or make sense of math has resulted in a failure of understanding Author Monica Neagoy drawing on decades of research studies evidence from teacher practice and 25 years of experience working around the world with teachers students and parents addresses seven big ideas in the teaching and learning of fractions in grades 2 6 Each idea is supported by a vignette from a real classroom common misconceptions a thorough unpacking of productive mathematical thinking and several multistep and thought provoking problems for teachers to explore She offers three fundamental reasons why it s imperative for us to take a closer look at how we teach fractions 1 Fractions play a key role in students feelings about mathematics 2

Fractions are fundamental to school math and daily life 3 Fractions are foundational to success in algebra While a solid grounding in algebra is necessary for a STEM career the worthy goal of algebra for all will not be possible until fractions for all is a reality Unpacking Fractions provides teachers with concrete strategies for achieving that reality in short helping all students gain the knowledge they need to feel at ease with fractions *Modeling Mathematical Ideas* Jennifer M.

Suh,Padmanabhan Seshaiyer,2016-12-27 Modeling Mathematical Ideas combining current research and practical strategies to build teachers and students strategic competence in problem solving This must have book supports teachers in understanding learning progressions that addresses conceptual guiding posts as well as students common misconceptions in investigating and discussing important mathematical ideas related to number sense computational fluency algebraic thinking and proportional reasoning In each chapter the authors opens with a rich real world mathematical problem and presents classroom strategies such as visible thinking strategies technology integration and other related problems to develop

students strategic competence in modeling mathematical ideas

Understanding the Math We Teach and How to

Teach It, K-8 Small Marian, 2025-08-26 Dr Marian Small has written a landmark book for a wide range of educational settings and audiences from pre service math methods courses to ongoing professional learning for experienced teachers Understanding the Math We Teach and How to Teach It K 8 focuses on the big mathematical ideas in elementary and middle school grade levels and shows how to teach those concepts using a student centered problem solving approach Comprehensive and Readable Dr Small helps all teachers deepen their content knowledge by illustrating core mathematical themes with sample problems clear visuals and plain language Big Focus on Student Thinking The book s tools models and discussion questions are designed to understand student thinking and nudge it forward Particularly popular features include charts listing common student misconceptions and ways to address them a table of suggested manipulatives for each topic and a list of related children s book Implementing Standards That Make Sense By focusing on key mathematics principles Understanding the Math We Teach and How to Teach It K 8 helps to explain the whys of state standards and provides teachers with a deeper understanding of number sense operations algebraic thinking geometry and other critical topics Dr Small a former dean with more than 40 years in the field conceived the book as an essential guide for teachers throughout their career Many teachers who teach at the K 8 level have not had the luxury of specialist training in mathematics yet they are expected to teach an increasingly sophisticated curriculum to an increasingly diverse student population in a climate where there are heightened public expectations They deserve help

The Common Core Mathematics Companion: The Standards Decoded, Grades 3-5 Linda M. Gojak, Ruth Harbin Miles, 2015-05-28 Your user s guide to the mathematics standards In the 12 short months since the ELA versions of The Common Core Companions Grades K 2 and 3 5 burst on the scene they ve already assisted tens of thousands of teachers with the day to day what you do Teachers one big criticism what about mathematics Luckily NCTM past president Linda Gojak and mathematics coach Ruth Harbin Miles stepped up to the task The result That version of the mathematics standards you wish you had Page by page The Common Core Mathematics Companions clearly lay out The mathematics embedded in each standard for a deeper understanding of the content Examples of what effective teaching and learning look like in the classroom Connected standards within each domain so teachers can better appreciate how they relate Priorities within clusters so teachers know where to focus their time The three components of rigor conceptual understanding procedural skills and applications Vocabulary and suggested materials for each grade level band with explicit connections to the standards Common student misconceptions around key mathematical ideas with ways to address them Don t spend another minute poring over the mathematics standards Gojak and Miles have already done the heavy lifting for you Focus instead on how to teach them using The Common Core Mathematics Companion as your one stop guide for teaching planning assessing collaborating and designing powerful mathematics curriculum *Teaching Mathematics in the Visible Learning Classroom, Grades 3-5* John Almarode, Douglas Fisher, Kateri Thunder, Sara Delano

Moore, John Hattie, Nancy Frey, 2019-02-13 How do you generate that lightbulb aha moment of understanding for your students This book helps to answer that question by showing Visible Learning strategies in action in high impact mathematics classrooms Walk in the shoes of teachers as they engage in the countless micro decisions required to balance strategies tasks and assessments demonstrating that it s not only what works but when A decision making matrix and grade leveled examples help you leverage the most effective teaching practices at the most effective time to meet the surface deep and transfer learning needs of every student *Learning Disabilities* Sandro Misciagna, 2020-06-17 Learning disabilities are a heterogeneous group of disorders characterized by failure to acquire retrieve or use information competently They are the most severe and chronic form of learning difficulty in children They can be present at birth or acquired as a result of illness exposure to toxins poor nutrition medical treatment sociocultural deprivation or injury Learning problems typically consist in failure to acquire reading writing or math skills which are traditionally considered core domains This book explores the epidemiology neurobiological bases and diagnostic tools necessary for a comprehensive assessment of children with learning disabilities It also presents examples of children with specific learning disabilities and explains possible intervention strategies **A Focus on Ratios and Proportions** Marjorie M. Petit, Robert E. Laird, Matthew F. Wyneken, Frances R. Huntoon, Mary D. Abele-Austin, Jean D. Sequeira, 2020-05-17 This resource offers a groundbreaking effort to make mathematics education research on ratios and proportions readily accessible and understandable to preservice and in service teachers of grades 6 to 8 Using extensive annotated samples of student work and based on research gathered in the Ongoing Assessment Project OGAP A Focus on Ratios and Proportions teaches readers how students develop understanding and fluency involving ratio and proportion concepts Special features include 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 Ratios and Proportions Progression based on research conducted with hundreds of teachers and thousands of pieces of student work Sections on how Common Core State Standards for Math CCSSM are supported by math education research Student work samples and vignettes to illuminate the research as well as end of chapter Looking Back questions and Instructional Links which allow teachers to analyze evidence of student thinking and strategies and consider instructional responses An accompanying eResource available online offers an answer key as well as extensive explanation of the Looking Back questions Like A Focus on Multiplication and Division and A Focus on Fractions this book 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 **Facilitator's Guidebook for Use of Mathematics Situations in Professional Learning** Rose Mary Zbiek, Glendon W. Blume, M. Kathleen Heid, 2018-01-01 The depth and breadth of a mathematics teacher s understanding of mathematics matter most as the teacher engages in the daily work of teaching One of the major

challenges to teachers is to be ready to draw on the relevant mathematical ideas from different areas of the school curriculum and from their postsecondary mathematics experiences that can be helpful in explaining ideas to students making instructional decisions creating examples and engaging in other aspects of their daily work Being mathematically ready and confident requires teachers to engage in ongoing professional learning that helps them to connect mathematics to events like those they live on a daily basis The purpose of this volume is to provide teachers teacher educators and other facilitators of professional learning opportunities with examples of authentic events and tools for discussing those events in professional learning settings The work shared in Facilitator's Guidebook for Use of Mathematics Situations in Professional Learning Guidebook resulted from a collaborative effort of school mathematics supervisors and university mathematics educators The collaborators joined their varied experiences as teachers coaches supervisors teacher educators and researchers to suggest ways to scaffold activities encourage discussion and instigate reflection with teacher participants of differing mathematics backgrounds and with varying teaching assignments Each guide has ideas for engaging and furthering mathematical thought across a range of facilitator and participant mathematics backgrounds and draws on the collaborators' uses of the Situations with in-service and prospective teachers The events and mathematical ideas connected to each event come from Situations in Mathematical Understanding for Secondary Teaching A Framework and Classroom Based Situations A Situation is a description of a classroom related event and the mathematics related to it For each of six Situations school and university collaborators developed a facilitator's guide that presents ideas and options for engaging teachers with the event and the mathematical ideas The Guidebook also contains suggestions for how teachers and others might develop new Situations based on events from their own classrooms as a form of professional learning Both teacher educators and school-based facilitators can use this volume to structure sessions and inspire ideas for professional learning activities that are rooted in the daily work of mathematics teachers and students

Developing Mathematical Reasoning Pamela Weber

Harris, 2025-02-18 Math is not rote memorizable Math is not random guessable Math is figure out-able Author Pam Harris argues that teaching real math math that is free of distortions will reach more students more effectively and result in deeper understanding and longer retention This book is about teaching undistorted math using the kinds of mental reasoning that mathematicians do Memorization tricks and algorithms meant to make math easier are full of traps that sacrifice long-term student growth for short-lived gains Students and teachers alike have been led to believe that they've learned more and more math but in reality their brains never get any stronger Using these tricks may make facts easier to memorize in isolation but that very disconnect distorts the reality of math The mountain of trivia piles up until students hit a breaking point Humanity's most powerful system of understanding organizing and making an impact on the world becomes a soul-draining exercise in confusion chaos and lost opportunities Developing Mathematical Reasoning Avoiding the Trap of Algorithms emphasizes the importance of teaching students increasingly sophisticated mathematical reasoning and understanding underlying concepts

rather than relying on a set rule for solving problems This book illuminates a hierarchy of mathematical reasoning to help teachers guide students through various domains of math development from basic counting and adding to more complex proportional and functional reasoning Everyone is capable of understanding and doing real math This book Highlights the important mathematical relationships strategies and models for students to develop Offers personal stories reflection sections and extensive practical exercises for easy implementation Includes real math a lot of it to provide teachers with examples they can put to use in their classrooms immediately This book is a valuable resource for educators looking to reach more students by building a strong foundation of mathematical thinking in their students By addressing common misconceptions about math and providing practical strategies for teaching real math this book shows that everyone can use the mathematical relationships they already know to reason about new relationships In other words everyone can math

The Math Pact, Elementary Karen S. Karp, Barbara J. Dougherty, Sarah B. Bush, 2020-09-19 A school wide solution for students mathematics success Do you sometimes start to teach a mathematics concept and feel like you re staring at a sea of bewildered faces What happens when you discover students previously learned a calculation trick or a mnemonic that has muddled their long term understanding When rules seem to change from year to year teacher to teacher or school to school mathematics can seem like a disconnected mystery for students Clear up the confusion with a Mathematics Whole School Agreement Expanded from the highly popular Rules that Expire series of NCTM articles this essential guide leads educators through the collaborative step by step process of establishing a coherent and consistent learner centered and equitable approach to mathematics instruction Through this work you will identify streamline and become passionate about using clear and consistent mathematical language notations representations rules and generalizations within and across classrooms and grades Importantly you ll learn to avoid rules that expire tricks that may seem to help students in one grade but hurt in the long run Features of this book include Abundant grade specific examples Effective working plans for sustainability Barrier busting tips to dos and try it outs Practical templates and checklists PLC prompts and discussion points When teachers unite across grades students hit the ground running every year Take the next step together as a team and help all your students build on existing understanding to find new success and most importantly love learning and doing mathematics

Encyclopedia of Education and Human Development Stephen J. Farenaga, Daniel Ness, 2015-07-17 This comprehensive and exhaustive reference work on the subject of education from the primary grades through higher education combines educational theory with practice making it a unique contribution to the educational reference market Issues related to human development and learning are examined by individuals whose specializations are in diverse areas including education psychology sociology philosophy law and medicine The book focuses on important themes in education and human development Authors consider each entry from the perspective of its social and political conditions as well as historical underpinnings The book also explores the people whose contributions have played a seminal role in the shaping of

educational ideas institutions and organizations and includes entries on these institutions and organizations This work integrates numerous theoretical frameworks with field based applications from many areas in educational research

Teaching Mathematics in Grades 6 - 12 Randall E. Groth, 2012-08-10 Teaching Mathematics in Grades 6 12 by Randall E Groth explores how research in mathematics education can inform teaching practice in grades 6 12 The author shows preservice mathematics teachers the value of being a researcher constantly experimenting with methods for developing students mathematical thinking and connecting this research to practices that enhance students understanding of the material Ultimately preservice teachers will gain a deeper understanding of the types of mathematical knowledge students bring to school and how students thinking may develop in response to different teaching strategies **Good Questions** Marian Small, 2020-10-02 Now in its Fourth Edition with more than 50 new questions and a new chapter on financial literacy this bestselling resource helps experienced and novice teachers effectively and efficiently differentiate mathematics instruction in grades K 8 Math education expert Marian Small shows teachers how to get started and become expert at using two powerful and universal strategies Open Questions and Parallel Tasks This edition is even easier for teachers to use in all quality state standards environments including direct links to 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 Along with each example the text describes how teachers can evoke productive conversations that meet the needs of a broad range of learners Book Features New tasks and questions to develop financial literacy Connection of tasks and questions to standards and mathematical big ideas About 500 tasks and questions that teachers can adapt or use as is Teaching tips and task variations A template to help teachers build new tasks Look fors to see student thinking and diagnose difficulties Guidance for using follow up questions and math conversations to create a rich math classroom

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