

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

Albert Dean Otto



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.

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.

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 **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 **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 Developing Essential Understanding of Addition and

Subtraction for Teaching Mathematics in Prekindergarten-grade 2 Janet H. Caldwell, 2011 What is the relationship between addition and subtraction How do you know whether an algorithm will always work Can you explain why order matters in subtraction but not in addition or why it is false to assert that the sum of any two whole numbers is greater than either number It is organised around two big ideas and supported by smaller more specific interconnected ideas essential understandings Gaining an understanding about addition and subtraction is essential as they are the foundation for students later learning of multiplication and division Essential Understanding Series topics include Number and Numeration for Grades Pre K 2 Addition and Subtraction for Grades Pre K 2 Geometry for Grades Pre K 2 Reasoning and Proof for Grades Pre K 8 Multiplication and Division for Grades 3 5 Rational Numbers for Grades 3 5 Algebraic Ideas and Readiness for Grades 3 5 Geometric Shapes and Solids for Grades 3 5 Ratio Proportion and Proportionality for Grades 6 8 Expressions and Equations for Grades 6 8 Measurement for Grades 6 8 Data Analysis and Statistics for Grades 6 8 Function for Grades 9 12 Geometric Relationships for Grades 9 12 Reasoning and Proof for Grades 9 12 Statistics for Grades 9 12 **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 *Developing Essential Understanding of Ratios, Proportions, and Proportional Reasoning for Teaching Mathematics in Grades 6-8* Joanne Elizabeth Lobato, Amy B. Ellis, Randall Inners Charles, 2010 A series for teaching mathematics P 1 of cover *Developing Essential Understanding of Number and Numeration for Teaching Mathematics in Prekindergarten--grade 2* Barbara J. Dougherty, 2010 How do composing and decomposing numbers connect with the properties of addition Focus on the ideas that you need to thoroughly understand in order to teach with confidence The mathematical content of this book focuses on essential knowledge for teachers about numbers and number systems It is organised around one big idea and supported by smaller more specific interconnected ideas essential understandings Gaining this understanding is essential because numbers and numeration are building blocks

for other mathematical concepts and for thinking quantitatively about the real world Essential Understanding series topics include Number and Numeration for Grades Pre K 2 Addition and Subtraction for Grades Pre K 2 Geometry for Grades Pre K 2 Reasoning and Proof for Grades Pre K 8 Multiplication and Division for Grades 3 5 Rational Numbers for Grades 3 5 Algebraic Ideas and Readiness for Grades 3 5 Geometric Shapes and Solids for Grades 3 5 Ratio Proportion and Proportionality for Grades 6 8 Expressions and Equations for Grades 6 8 Measurement for Grades 6 8 Data Analysis and Statistics for Grades 6 8 Function for Grades 9 12 Geometric Relationships for Grades 9 12 Reasoning and Proof for Grades 9 12 Statistics for Grades 9 12

Focus in Grades 3-5 Amy Mirra, 2008 *Focus in Grades 3 5* is part of a series that shows teachers how to incorporate NCTM's Curriculum Focal Points for PreK 8 into their current mathematics curricula The book provides practical ideas sample student work and a sample state math curricula organised around the focal points By focusing more intensely on fewer topics at each grade level students gain a deeper understanding of mathematical ideas This volume will help teachers think about what a focused curriculum means and how they might begin to build focus into their existing curricula

Navigating Through Number and Operations in Grades 3-5 Natalie N. Duncan, 2007 In grades 3 5 students extend their understanding of place value larger whole numbers fractions and decimals They develop an understanding of multiplication and division mastering and applying basic facts Concrete materials can help students represent and reinforce these important concepts Activities in this book invite students to use fraction circles to compare fractions and dot arrays to explore multiplication and the distributive property The authors present many other hands on approaches including the use of work mats open number lines multiplication chains and games with spinners Numbers and the operations that we perform with them are the starting points for all mathematics Accordingly Principles and Standards for School Mathematics makes the Number and Operations Standard first among the five Content Standards and gives it centrality across the mathematics curriculum from prekindergarten through grade 12 The Navigations Series translates Principles and Standards for School Mathematics into action Each book includes practical teacher tested activities and a supplemental CD ROM that features applets for students use and resources for teachers professional development

Teaching Learners who Struggle with Mathematics Helene J. Sherman, Lloyd I. Richardson, George J. Yard, 2009 This book was written to give teachers the tools they need to help students go from believing they can't do math to achieving real success and gaining confidence in their math skills This can be accomplished if parents and teachers instead of trying the same thing over and over again focus on how their students learn best To do this the authors present a systematic three step approach on how to assess student's strengths and weaknesses and then plan instruction accordingly The three step plan involves 1 Creating a Data Analysis Sheet DAS 2 Considering the learners strengths and areas of concern 3 Completing a Mathematics Improvement Plan MIP Each chapter deals with a different mathematical topic place value problem solving fractions addition subtraction division decimals time and money etc A number of errors by a variety of students are described

using a case study of a typical struggling student The text then explains how teachers can systematically assess the student s work and appropriately diagnose their problems By analyzing and understanding why and how their students make errors teachers can design appropriate ways to correct their mistakes and then promote long term learning through repetition and practice that is meaningful to them This book addresses mathematics education in a manner that encourages positive content growth and attitude for both teachers and students **Teaching Mathematics in Grades K-8** Thomas Richard Post,1992

Strategies for Teaching Learners with Special Needs Edward A. Polloway,James R. Patton,Loretta Serna,2008 Revised to incorporate important new information about No Child Left Behind and the 2004 re authorization of IDEA this classic work in the field of teaching methodology for students with special needs continues to be the most comprehensive textbook available for students with mild high incidence disabilities i e learning disabilities mild retardation intellectual disabilities emotional and behavioral disorders and students experiencing learning problems in the general education classroom The focus of the book is on effective instructional strategies for students being served in diverse educational settings with a primary emphasis on those being taught in inclusive educational environments In Part I the text provides basic information on curriculum development and instruction while in Part II an in depth discussion of key curricular areas is provided For educators teaching learning disabled students *Helping Children Learn Mathematics* Robert E. Reys,Mary Lindquist,Diana V. Lambdin,Nancy L. Smith,2008-12-15 The ninth edition of this best selling elementary math methods textbook continues the rich history of this book with a dash of new breath and a new contemporary design It has been updated to reflect current recommendations readings and practices while maintaining the characteristics and features that have made it a popular choice of instructors This new edition remains an invaluable text for students who are being introduced to teaching elementary mathematics In addition its depth also makes it appropriate for teachers to use as they continue to learn about teaching mathematics Publsiher s website [Teaching and Learning Mathematics](#) Linda Jensen Sheffield,Douglas E. Cruikshank,2004-03-29 Help students make sense of mathematics Rather than merely discussing how to improve students ability to do mathematics this fifth edition focuses on helping them make sense of mathematics Based on research on the functioning of the mind as it engages in learning the text supports teachers as they promote mathematical understanding strengthen students abilities to think and help students to attain computational fluency Features A rich collection of ready to use learning activities Fully integrated language and intent of Principles and Standards for School Mathematics PSSM A greater emphasis on problem solving and higher level thinking A greater focus on teaching mathematics to diverse learners Descriptions of a variety of promising and effective mathematics programs for the K 8 levels

The Software Encyclopedia 2000 Bowker Editorial Staff,2000-05 *Everyday Mathematics Teacher Lesson Guide Volume 1 Grade 5* University of Chicago. School Mathematics Project,2007 The Teacher s Lesson Guide provides easy to follow lessons organized by instructional unit as well as built in mathematical content support Lessons include planning and

assessment tips and multilevel differentiation strategies for all learners This English Spanish Edition provides dual language support *Everyday Mathematics Teacher Lesson Guide Volume 1 Grade 4* Edm, University of Chicago. School Mathematics Project, 2008 The Teacher s Lesson Guide provides easy to follow lessons organized by instructional unit as well as built in mathematical content support Lessons include planning and assessment tips and multilevel differentiation strategies for all learners This English Spanish Edition provides dual language support

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

1. Understanding the eBook Developing Essential Understanding Of Multiplication And Division For Teaching Mathematics In Grades 3 5
 - The Rise of Digital Reading Developing Essential Understanding Of Multiplication And Division For Teaching Mathematics In Grades 3 5
 - Advantages of eBooks Over Traditional Books
2. Identifying Developing Essential Understanding Of Multiplication And Division For Teaching Mathematics In Grades 3 5
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction

- Determining Your Reading Goals
- 3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Developing Essential Understanding Of Multiplication And Division For Teaching Mathematics In Grades 3 5
 - User-Friendly Interface
- 4. Exploring eBook Recommendations from Developing Essential Understanding Of Multiplication And Division For Teaching Mathematics In Grades 3 5
 - Personalized Recommendations
 - Developing Essential Understanding Of Multiplication And Division For Teaching Mathematics In Grades 3 5 User Reviews and Ratings
 - Developing Essential Understanding Of Multiplication And Division For Teaching Mathematics In Grades 3 5 and Bestseller Lists
- 5. Accessing Developing Essential Understanding Of Multiplication And Division For Teaching Mathematics In Grades 3 5 Free and Paid eBooks
 - Developing Essential Understanding Of Multiplication And Division For Teaching Mathematics In Grades 3 5 Public Domain eBooks
 - Developing Essential Understanding Of Multiplication And Division For Teaching Mathematics In Grades 3 5 eBook Subscription Services
 - Developing Essential Understanding Of Multiplication And Division For Teaching Mathematics In Grades 3 5 Budget-Friendly Options
- 6. Navigating Developing Essential Understanding Of Multiplication And Division For Teaching Mathematics In Grades 3 5 eBook Formats
 - ePub, PDF, MOBI, and More
 - Developing Essential Understanding Of Multiplication And Division For Teaching Mathematics In Grades 3 5 Compatibility with Devices
 - Developing Essential Understanding Of Multiplication And Division For Teaching Mathematics In Grades 3 5 Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Developing Essential Understanding Of Multiplication And Division For

- Teaching Mathematics In Grades 3 5
 - Highlighting and Note-Taking Developing Essential Understanding Of Multiplication And Division For Teaching Mathematics In Grades 3 5
 - Interactive Elements Developing Essential Understanding Of Multiplication And Division For Teaching Mathematics In Grades 3 5
- 8. Staying Engaged with Developing Essential Understanding Of Multiplication And Division For Teaching Mathematics In Grades 3 5
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Developing Essential Understanding Of Multiplication And Division For Teaching Mathematics In Grades 3 5
- 9. Balancing eBooks and Physical Books Developing Essential Understanding Of Multiplication And Division For Teaching Mathematics In Grades 3 5
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Developing Essential Understanding Of Multiplication And Division For Teaching Mathematics In Grades 3 5
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Developing Essential Understanding Of Multiplication And Division For Teaching Mathematics In Grades 3 5
 - Setting Reading Goals Developing Essential Understanding Of Multiplication And Division For Teaching Mathematics In Grades 3 5
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Developing Essential Understanding Of Multiplication And Division For Teaching Mathematics In Grades 3 5
 - Fact-Checking eBook Content of Developing Essential Understanding Of Multiplication And Division For Teaching Mathematics In Grades 3 5
 - Distinguishing Credible Sources

13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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