A Series for Teaching Mathematics

Developing Essential Understanding

# Addition & Subtraction

Pre-K-Grade 2



NATIONAL COUNCIL OF TEACHERS OF MATHEMATICS

# <u>Developing Essential Understanding Of Addition And</u> <u>Subtraction For Teaching Mathematics In Pre K Grade</u>

Jennifer M. Bay-Williams, John J. SanGiovanni, C. David Walters, Sherri Martinie

# Developing Essential Understanding Of Addition And Subtraction For Teaching Mathematics In Pre K Grade:

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 subraction 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 Developing Essential Understanding of Number and Numeration for Teaching 12 Statistics for Grades 9 12 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 The Mathematics Lesson-Planning Handbook, Grades K-2 Beth McCord Kobett, Ruth Harbin Miles, Lois A. Williams, 2018-02-09 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 Your blueprint to

planning K 2 math lessons for maximum impact and understanding Not sure of tomorrow morning s lesson plan Or maybe you feel it isn t tailored enough for your students needs What do you do For that and more help is here The Mathematics Lesson Planning Handbook Grades K 2 Your Blueprint for Building Cohesive Lessons guides teachers step by step through the decision making process of planning K 2 math lessons that are purposeful rigorous and coherent Instructional experts Beth McCord Kobett Ruth Harbin Miles and Lois A Williams streamline and deepen the lesson planning process showing teachers how to access students complex needs clarify learning intentions and select tasks that will best lead to student understanding of mathematical concepts and skills Along the way teachers create an individualized blueprint for planning K 2 math lessons for maximum student learning The lesson planning process guides teachers to Identify the mathematical content language and social learning intentions for a lesson or unit and connect goals to success criteria Determine the purpose of a math lesson you re planning by distinguishing between conceptual understanding procedural fluency and transfer Select worthwhile tasks and materials that make the best use of representations manipulatives and other instructional tools and resources Choose the format of your lesson using reasoning and number routines games whole class discussion and pairs or small group work Anticipate student misconceptions and evaluate understanding using a variety of formative assessment techniques Decide how you ll launch your lesson facilitate questioning encourage productive struggle and close your lesson Included is a lesson planning template and examples from kindergarten first and second grade classrooms Chapter by chapter the decision making strategies empower teachers to plan math lessons strategically to teach with intention and confidence and to build an exceptional foundation in math for all students *Planting the Seeds of Algebra, PreK*□2 Monica Neagoy,2012-04-20 The subject of algebra has always been important in American secondary mathematics education However algebra at the elementary level has been garnering increasing attention and importance over the past 15 years There is consequently a dire need for ideas suggestions and models for how best to achieve pre algebraic instruction in the elementary grades Planting the Seeds of Algebra will empower teachers with theoretical and practical knowledge about both the content and pedagogy of such instruction and show them the different faces of algebra as it appears in the early grades The book will walk teachers of young children through many examples of K 6 math lessons and unpack step by step the hidden connections to higher algebra After reading this book teachers will be better equipped

Your Mathematics Standards Companion, Grades K-2 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 Standards for Preparing Teachers of assessing collaborating and designing powerful mathematics curriculum Mathematics Association of Mathematics Teacher Educators (AMTE),2020-02-01 Also available in a black white version AMTE in the Standards for Preparing Teachers of Mathematics SPTM puts forward a national vision of initial preparation for all Pre K 12 teachers who teach mathematics SPTM contains critical messages for all who teach mathematics including elementary school teachers teaching all disciplines middle and high school mathematics teachers who may teach mathematics exclusively special education teachers teachers of emergent multilingual students and other teaching professionals and administrators who have responsibility for students mathematical learning SPTM has broad implications for teacher preparation programs in which stakeholders include faculty and administrators in both education and mathematics at the university level teachers principals and district leaders in the schools with which preparation programs partner and the communities in which preparation programs and their school partners are situated SPTM is intended as a national guide that articulates a vision for mathematics teacher preparation and supports the continuous improvement of teacher preparation programs Such continuous improvement includes changes to preparation program courses and structures partnerships involving schools and universities and their leaders the ongoing accreditation of such programs regionally and nationally and the shaping of state and national mathematics teacher preparation policy SPTM is also designed to inform assessment practices for mathematics teacher preparation programs to influence policies related to preparation of teachers of mathematics and to promote national dialogue around preparing teachers of mathematics The vision articulated in SPTM is aspirational in that it describes a set of high expectations for developing a well prepared beginning teacher of mathematics who can support meaningful student learning The vision is research based and establishes a set of goals for the continued development and refinement of a mathematics teacher preparation program and a research agenda for the study of the effects of such a program SPTM contains detailed depictions of what a well prepared beginning teacher knows and is able to do related to content pedagogy and disposition and what a strong preparation program entails with respect to learning experiences assessments and partnerships Stakeholders in mathematics teacher preparation will find messages related to their roles Standards for Preparing Teachers of Mathematics includes standards and indicators for teacher candidates and for the design of teacher preparation programs SPTM outlines assessment practices related to overall

quality program effectiveness and candidate performance SPTM describes specific focal practices by grade band and provides guidance to stakeholders regarding processes for productive change *Putting Essential Understanding of* Addition and Subtraction Into Practice in Prekindergarten-grade 2 Janet H. Caldwell, Beth McCord Kobett, Karen S. Karp, 2014 Do your students have the incorrect idea that addition makes numbers bigger and subtraction makes numbers smaller Do they believe that subtraction is always taking away What tasks can you offer what guestions can you ask to determine what your students know or don't know and move them forward in their thinking This book focuses on the specialized pedagogical content knowledge that you need to teach addition and subtraction effectively in prekindergarten grade 2 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 mathematics 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 addition and subtraction 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 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 reaction 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 instructional strategies and assessment that pedagogical content knowledge entails Resources and tasks are available at nctm org more4U 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 Figuring Out Fluency - Operations With Rational Numbers and Algebraic Equations Jennifer M. Bay-Williams, John J. SanGiovanni, C. David Walters, Sherri Martinie, 2022-07-25 This book is awesome What stood out to me was the deep understanding I was able to have about what fluency actually means Too often the message has been fluency and accuracy especially at the middle school level By providing teachers with tools for building fluency with integers expressions and algebra this book shifts that message to also focus on flexibility and strategy selection Lindsey Henderson Secondary Mathematics Specialist Utah State Board of Education Salt Lake City UT Because fluency practice is not a worksheet Fluency in mathematics is more than adeptly using basic facts or implementing algorithms It is not about speed or recall Real fluency is about choosing strategies that are efficient flexible lead to accurate solutions and are appropriate for the given situation Developing fluency is also a matter of equity and access for all learners The landmark book Figuring Out Fluency in Mathematics Teaching and Learning offered educators the inspiration to develop a deeper understanding of procedural fluency along with a plethora of pragmatic tools for shifting classrooms toward a fluency approach Now teachers have the chance to apply that inspiration through explicit instruction and practice every day with the classroom companion Figuring Out Fluency Operations With Rational Numbers and Algebraic Equations With this book teachers can Dive deeper into the Significant Strategies for fluency explained in the anchor book as they apply to rational number operations Explore how these strategies can be applied for proportional reasoning solving equations for unknowns and solving systems of linear equations Access over 100 classroom ready activities including worked examples routines and games Find activities to explicitly teach students how to use and choose strategies to operate on rational numbers and solve algebraic equations Download all of the needed support tools game boards and other resources from the companion website for immediate implementation Give each and every student the knowledge and power to become skilled and confident mathematical Rehumanizing Assessment Tom Schimmer, Natalie Vardabasso, 2025-05-09 Discover the thinkers and doers transformative power of storytelling in assessment and student learning Drawing on culturally responsive practices this

approach fosters innovation self reflection and student engagement Through narrative based strategies educators can elevate formative and summative assessments promoting authentic competency based learning meaningful growth and deeper connections to critical competencies as well as cultural archetypes This guide helps educators reimagine assessment in diverse student centered classrooms K 12 teachers can use this book to Revitalize assessment to encourage students growth as critical creative thinkers Elevate student engagement through creative responses and personal reflections Employ elements of narrative structure to explore and hone student competencies Cultivate student agency and innovation in contemplating and expressing knowledge Create opportunities for students to find personal meaning in their learning experiences Contents Introduction Part 1 Looking Back to Look Forward Chapter 1 Humanity Through Story Chapter 2 Essential Assessment Through Story Chapter 3 Critical Competencies Through Story Part 2 Learning Through Story Chapter 4 Conflict Through Story Chapter 5 Harmony Through Story Chapter 6 Reflection Through Story Chapter 7 Perspective Through Story Chapter 8 Imagination Through Story Chapter 9 Craft Through Story Epilogue References and Resources Index

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# Developing Essential Understanding Of Addition And Subtraction For Teaching Mathematics In Pre K Grade Introduction

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