

Mental Math

14 Posters



Number Talks Mental Math

Nancy Hughes

A red circular graphic with a gradient, appearing as a stylized arrow or a partial circle, located to the right of the author's name.

Number Talks Mental Math:

Number Talks Sherry Parrish, 2010 A multimedia professional learning resource Cover *Making Number Talks Matter* Cathy Humphreys, Ruth Parker, 2023-10-10 Making the transition to student centered learning begins with finding ways to get students to share their thinking something that can be particularly challenging for math class Authors Ruth Parker and Cathy Humphreys introduce *Making Number Talks Matter* Developing Mathematical Practices and Deepening Understanding Grades 3-10 taking the readers into classrooms where their Number Talks routines are taught Parker and Humphreys apply their 15 minute lessons to inspire and initiate math talks Through vignettes in the book you'll meet other teachers learning how to listen closely to students and how to prompt them into figuring out solutions to problems You will learn how to make on the spot decisions continually advancing and deepening the conversation *Making Number Talks Matter* includes Sample Problems Filled with a range of Number Talks problems 10-15 minute warm up routines that lend themselves to mental math and comparison of strategies Navigating Rough Spots Learn how to create a safe environment for tricky or challenging student discussions that can arise when talking through problems and sharing ideas Responding to Mistakes Ways to handle misconceptions and mathematical errors that come up during the course of Number Talk conversations *Making Number Talks Matter* is filled with teaching tips for honoring student contributions while still correcting errors and teaching concepts while nudging independent thinking Whether you are an elementary middle school or high school teacher through daily practice and open conversation you can build a solid foundation for the study of mathematics and *Make Number Talks Matter*

Classroom-Ready Number Talks for Sixth, Seventh, and Eighth Grade Teachers Nancy Hughes, 2020-03-31 Make math class fun with this big book of number talk strategies designed to teach middle school students the mental math problem solving skills they need to meet common core standards and become successful mathematical thinkers Bringing the exciting teaching method of number talks into your classroom has never been easier Simply choose from the hundreds of great ideas in this book and get going with no extra time wasted From activities on multiplication and division to decimals and integers *Classroom Ready Number Talks for Sixth Seventh and Eighth Grade Teachers* includes Grade level specific strategies Number talk how tos Visual and numerical examples Scaffolding suggestions Common core alignments Questions to build understanding Reduce time spent lesson planning and preparing materials and enjoy more time engaging your students in learning important math concepts These ready to use number talks are sure to foster a fresh and exciting learning environment in your classroom

Digging Deeper Ruth Parker, Cathy Humphreys, 2023-10-10 Making the transition to student centered learning begins with finding ways to get students to share their thinking something that can be particularly challenging for older learners Authors Ruth Parker and Cathy Humphreys return with *Digging Deeper Making Number Talks Matter Even More* Grades 3-10 taking the readers into classrooms where their Number Talks routines are taught In this comprehensive sequel to their best selling book *Making Number Talks Matter* Parker and Humphreys apply their 15 minute

lessons to older grade levels to inspire and initiate math talks Through vignettes in the book you ll meet other teachers learning how to listen closely to students and how to prompt them into figuring out solutions to problems You will learn how to make on the spot decisions continually advancing and deepening the conversation Digging Deeper includes Sample Problems Digging Deeper is filled with a range of Number Talks problems 10 15 minute warm up routines that lend themselves to mental math and comparison of strategies Navigating Rough Spots Learn how to create a safe environment for tricky problematic or challenging student discussions that can arise when talking through problems and sharing ideas Responding to Mistakes Ways to handle misconceptions and mathematical errors that come up during the course of Number Talk conversations Digging Deeper is filled with teaching tips for using wait time between problems more efficiently honoring student contributions while still correcting errors and teaching concepts while nudging independent thinking Through daily practice and open conversation you can make Number Talks matter more

The Language of Mathematics Education

Shannon W. Dingman, Laura B. Kent, Kim K. McComas, Cynthia C. Orona, 2019-08-26 The Language of Mathematics Education An Expanded Glossary of Key Terms and Concepts in Mathematics Teaching and Learning offers mathematics teachers mathematics education professionals and students a valuable resource in which common terms are defined and expounded upon in short essay format The shared vocabulary and terminology relating to mathematics teaching and learning and used by mathematics educators is an essential component of work conducted in the field The authors provide an overview of more than 100 terms commonly used in mathematics teaching and learning Each term is defined and is followed by a short overview of the concept under discussion that includes several bibliographic references the reader can use for further investigation In addition to terms specific to the domain of mathematics education select key terms common across all fields of education e g curriculum epistemology metacognition are included The goal for this book is to serve as a resource for those entering the field as they navigate the language and terminology of mathematics education and as an asset for more established professionals who wish to gain additional insights into these ideas

Mathematics as the Science of Patterns Patrick M. Jenlink, 2022-02-01 Mathematics as the Science of Patterns Making the Invisible Visible to Students through Teaching introduces the reader to a collection of thoughtful research based works by authors that represent current thinking about mathematics mathematics education and the preparation of mathematics teachers Each chapter focuses on mathematics teaching and the preparation of teachers who will enter classrooms to instruct the next generation of students in mathematics The value of patterns to the teaching and learning of mathematics is well understood both in terms of research and application When we involve or appeal to pattern in teaching mathematics it is usually because we are trying to help students to extract greater meaning or enjoyment or both from the experience of learning environments within which they are occupied and perhaps also to facilitate remembering As a general skill it is thought that the ability to discern a pattern is a precursor to the ability to generalize and abstract a skill essential in the early years of learning and beyond

Research indicates that the larger problem in teaching mathematics does not lie primarily with students rather it is with the teachers themselves In order to make changes for students there first needs to be a process of change for teachers Understanding the place of patterns in learning mathematics is a predicate to understanding how to teach mathematics and how to use pedagogical reasoning necessary in teaching mathematics Importantly the lack of distinction created by the pedagogical use of patterns is not immediately problematic to the student or the teacher The deep seated cognitive patterns that both teachers and students bring to the classroom require change Chapter 1 opens the book with a focus on mathematics as the science of patterns and the importance of patterns in mathematical problem solving providing the reader with an introduction The authors of Chapter 2 revisit the work of Po lya and the development and implementation of problem solving in mathematics In Chapter 3 the authors present an argument for core pedagogical content knowledge in mathematics teacher preparation The authors of Chapter 4 focus on preservice teachers patterns of conception as related to understanding number and operation In Chapter 5 the authors examine the role of visual representation in exploring proportional reasoning denoting the importance of helping learners make their thinking visible The authors of Chapter 6 examine patterns and relationships and the importance of each in assisting students learning and development in mathematical understanding The authors of Chapter 7 examine the use of worked examples as a scalable practice with emphasis on the importance of worked examples in teaching fraction magnitude and computation is discussed In Chapter 8 the authors expand on the zone of proximal development to investigate the potential of Zankov s Lesson in terms of students analyzing numerical equalities The authors of Chapter 9 focus on high leverage mathematical practices in elementary pre service teacher preparation drawing into specific relief the APEX cycle to develop deep thinking In Chapter 10 the author focuses on number talks and the engagement of students in mathematical reasoning which provides opportunities for students to be sensemakers of mathematics Chapter 11 presents an epilogue focusing on the importance of recognizing the special nature of mathematics knowledge for teaching

Classroom-Ready Number Talks for Sixth, Seventh, and Eighth Grade Teachers Nancy Hughes,2020-03-31 The fun way to teach middle schoolers the mental math problem solving skills they need to meet common core standards and attain mathematical fluency Bringing the exciting teaching method of number talks into your classroom has never been easier Simply choose from the hundreds of great ideas in this book and get going with no extra time wasted From activities on multiplication and division to decimals and integers Classroom Ready Number Talks for Sixth Seventh and Eighth Grade Teachers includes Grade level specific strategies Number talk how tos Visual and numerical examples Scaffolding suggestions Common core alignments Questions to build understanding Reduce time spent lesson planning and preparing materials and enjoy more time engaging your students in learning important math concepts These ready to use number talks are sure to foster a fresh and exciting learning environment in your classroom

Online Learning in Mathematics Education Karen Hollebrands,Robin Anderson,Kevin Oliver,2021-10-27 This book brings

together research from mathematics education and instructional design to describe the development and impact of online environments on prospective and practicing teachers learning to teach mathematics The move to online learning has steadily increased over the past decade Its most rapid movement occurring in 2020 with most instruction taking place remotely Chapters in this book highlight issues related to teacher learning in three main contexts formal informal and experiential or practice based This volume brings together researchers from the different but related fields of instructional design and mathematics education to engage in dialogue around how we design and study the impacts of online learning in general and online mathematics education more specifically The book is very timely with most instruction taking place online and mathematics educators addressing challenges related to supporting teachers formal informal and experiential learning online A chapter in each section will synthesize ideas presented by instructional designers and mathematics educators as it relates to teacher learning in each context At the end of each section a retrospective chapter is presented to reflect on what the different perspectives offer to better understand mathematics teacher learning in online environments This book is of interest to mathematics educators researchers teacher educators professional development providers and instructional designers

Mathematical Discourse: Let the Kids Talk! Barbara Blanke, 2019-12-10 This invaluable resource provides teachers with the tools they need to facilitate mathematical discourse and create opportunities for students to think constructively communicate effectively and increase mathematics proficiency This book will help teachers develop a new set of pedagogical skills and strategies to assess plan and organize their classrooms in a manner that is conducive to mathematical discourse With helpful tips and strategies that are easy to implement this standards based book supports an equitable learning environment by encouraging active listening clear communication justification of perspective and acknowledgement of students experiences Each chapter includes Culturally and Linguistically Responsive Teaching and Learning strategies to address cultural norms for diverse populations and support the needs of English language learners With tips for implementing Math Talks and Number Talks this resource will get students thinking like mathematicians in no time

Mathematical Teaching and Learning Katherine M. Robinson, Donna Kotsopoulos, Adam K. Dubé, 2023-06-15 This book focusses on teaching and learning in elementary and middle school mathematics and suggests practices for teachers to help children be successful mathematical thinkers Contributions from diverse theoretical and disciplinary perspectives are explored Topics include the roles of technology language and classroom discussion in mathematics learning the use of creativity visuals and teachers physical gestures to enhance problem solving inclusive educational activities to promote children s mathematics understanding how learning in the home can enhance children s mathematical skills the application of mathematics learning theories in designing effective teaching tools and a discussion of how students teachers teacher educators and school boards differentially approach elementary and middle school mathematics This book and its companion *Mathematical Cognition and Understanding* take an interdisciplinary perspective to mathematical learning and development

in the elementary and middle school years The authors and perspectives in this book draw from education neuroscience developmental psychology and cognitive psychology The book will be relevant to scholars educators in the field of mathematics education and also those in childhood development and cognition Each chapter also includes practical tips and implications for parents as well as for educators and researchers

The Impact of Daily Number Talks on the Development of Mental Math Abilities of Second Graders Within a Reform-based Classroom Angela I.

Mader-Stewart,2018 In this mixed methods case study I examined the impact of daily number talks or strings on the development of mental math abilities of second graders within a reform based classroom I also looked at whether or not the implementation of number talks would increase students ability to calculate with accuracy efficiency and flexibility Finally I looked at whether or not the implementation of number talks would increase students understanding of place value and number relationships The sample included one class of 19 second graders to determine the overall impact of number talks with a focus on six embedded case studies which amplified how this change occurred A preassessment interview two midassessments twenty four number talks a postnumber talk questionnaire and a postassessment interview were used over the span of six weeks The twenty four number talks were developed for students to invent construct and make sense of their own number strategies and their underlying key ideas After six weeks of number talks all students demonstrated an increase in accuracy efficiency and flexibility in their number calculations to 20 The case study data of two low achieving three average achieving and one high level student reveals growth in their ability to articulate their thinking with an increase in their understanding of place value and number relationships

Global Perspectives and Practices for Reform-Based Mathematics Teaching Kartal, Ozgul,Popovic, Gorjana,Morrissey, Susie,2022-04-22

Reform based mathematics has become a popular topic in the education field as this teaching emphasizes classroom discourse and instructional goals related to student engagement and an understanding of mathematical reasoning concepts and procedures using instructional practices that build on students informal knowledge of mathematics It also connects mathematics with other disciplines and the real world and provides opportunities for students to contribute and invent their own methods during problem solving Further study on the best practices benefits and challenges of implementing this teaching into education is required Global Perspectives and Practices for Reform Based Mathematics Teaching explores international perspectives on diverse reform based practices in teaching and learning mathematics describes challenges and issues for teachers and teacher educators promotes reflection and academic discussion at various levels and in various educational systems and raises questions for the field of mathematics education Covering a range of topics such as teacher preparation programs and integrated learning spaces this reference work is ideal for academicians practitioners researchers instructors educators and students

Handbook of Research on Integrating Digital Technology With Literacy Pedagogies Sullivan, Pamela M.,Lantz, Jessica L.,Sullivan, Brian A.,2019-11-22 The allure and marketplace power of digital technologies continues to hold sway over

the field of education with billions spent annually on technology in the United States alone Literacy instruction at all levels is influenced by these evolving and ever changing tools While this opens the door to innovations in literacy curricula it also adds a pedagogical responsibility to operate within a well developed conceptual framework to ensure instruction is complemented or augmented by technology and does not become secondary to it The Handbook of Research on Integrating Digital Technology With Literacy Pedagogies is a comprehensive research publication that considers the integration of digital technologies in all levels of literacy instruction and prepares the reader for inevitable technological advancements and changes Covering a wide range of topics such as augmented reality literacy and online games this book is essential for educators administrators IT specialists curriculum developers instructional designers teaching professionals academicians researchers education stakeholders and students

Cases for Mathematics Teacher Educators Dorothy Y. White, Sandra Crespo, Marta Civil, 2016-10-01 The Association of Mathematics Teacher Educators AMTE in its 2015 position paper on Equity in Mathematics Teacher Education provides a list of actions for mathematics teacher educators MTE s to help them develop and implement equitable practices The position paper states it is critical that mathematics teacher educators Model equity based pedagogy that emphasizes rich and rigorous mathematics elicit and build on children s and young adults mathematical thinking connect to P 12 students cultural linguistic knowledge and backgrounds as well as individual interests facilitate mathematical discourse minimize status issues by expanding broader participation and engagement where varied mathematical strengths are valued and promote positive mathematical identity and agency p 2 Cases for Mathematics Teacher Educators Facilitating Conversations about Inequities in Mathematics Classrooms provides an excellent resource to start conversations describing the enactment of these actions The book is organized into three main sections 1 Conversations About Inequities in Mathematics Methods Courses 2 Conversations About Inequities in Mathematics Content Courses and 3 Conversations about Inequities in Graduate and Professional Development Contexts Across these sections there are 19 cases and 57 corresponding commentaries focused on dilemmas that arise when mathematics teacher educators foreground equity in their work This book of cases provides a needed resource for MTEs to engage prospective teachers practicing teachers and future teacher educators in discussions about inequities privilege and oppression in society in schools and in the mathematics classroom It is the product of the thinking and experiences of 87 authors who are committed to the improvement of mathematics teacher education

Mindset Mathematics Jo Boaler, Jen Munson, Cathy Williams, 2017-08-28 Engage students in mathematics using growth mindset techniques The most challenging parts of teaching mathematics are engaging students and helping them understand the connections between mathematics concepts In this volume you ll find a collection of low floor high ceiling tasks that will help you do just that by looking at the big ideas at the first grade level through visualization play and investigation During their work with tens of thousands of teachers authors Jo Boaler Jen Munson and Cathy Williams heard the same message that they want to incorporate more brain science into their math

instruction but they need guidance in the techniques that work best to get across the concepts they needed to teach So the authors designed Mindset Mathematics around the principle of active student engagement with tasks that reflect the latest brain science on learning Open creative and visual math tasks have been shown to improve student test scores and more importantly change their relationship with mathematics and start believing in their own potential The tasks in Mindset Mathematics reflect the lessons from brain science that There is no such thing as a math person anyone can learn mathematics to high levels Mistakes struggle and challenge are the most important times for brain growth Speed is unimportant in mathematics Mathematics is a visual and beautiful subject and our brains want to think visually about mathematics With engaging questions open ended tasks and four color visuals that will help kids get excited about mathematics Mindset Mathematics is organized around nine big ideas which emphasize the connections within the Common Core State Standards CCSS and can be used with any current curriculum

Elevating Clinical Practice in Mathematics

Education Drew Polly,Christie S. Martin,2025-06-20 Elevating clinical practice in mathematics education has potential to greatly transform the preparation of effective mathematics teachers This book showcases examples of clinical practice in mathematics education with each chapter focused on one of the National Council for Teachers of Mathematics Effective Teaching Practices

Classroom-Ready Number Talks for Kindergarten, First and Second Grade Teachers Nancy Hughes,2019-02-26 A wide variety of ready to use number talks that help kindergarten through second grade students learn math concepts in fun and easy ways Bringing the exciting teaching method of number talks into your classroom has never been easier Simply choose from the hundreds of great ideas in this book and get going From activities on addition and subtraction to fractions and decimals Classroom Ready Number Talks for Kindergarten First and Second Grade Teachers includes Grade level specific strategies Number talk how tos Visual and numerical examples Scaffolding suggestions Common core alignments Questions to build understanding Reduce time spent lesson planning and preparing materials and enjoy more time engaging your students in learning important math concepts These ready to use number talks are sure to foster a fresh and exciting learning environment in your classroom as well as help your students increase their comprehension of numbers and mathematical principles

Joyful Math Deanna Pecaski McLennan,2023-10-10 If you ve ever wished that learning math could be more joyful and playful for young learners you re not alone In Joyful Math Invitations to Play and Explore in the Early Childhood Classroom kindergarten teacher Deanna Pecaski McLennan opens her classroom doors to share the practical yet innovative ways she integrates mathematical play throughout the school day Each chapter of this easy to navigate photo filled book focuses on specific strategies activities and examples of mathematical play within literacy art and outdoor explorations Inside Joyful Mathyou ll find A photo guide including suggested tools and materials to setting up a classroom environment and space that fosters mathematical curiosity and joy Dozens of open ended and teacher guided mathematical activities that are simple to set up and full of mathematical possibility Practical tips for including

mathematical play across the day Suggestions and examples of ways to document and share children s learning experiences with families and communities Joyful Math will inspire educators to make space for joy and play in early childhood mathematics and give them the tools to make this vision a reality Handbook of Research on Transforming Mathematics Teacher Education in the Digital Age Niess, Margaret,Driskell, Shannon,Hollebrands, Karen,2016-04-22 The digital age provides ample opportunities for enhanced learning experiences for students however it can also present challenges for educators who must adapt to and implement new technologies in the classroom The Handbook of Research on Transforming Mathematics Teacher Education in the Digital Age is a critical reference source featuring the latest research on the development of educators knowledge for the integration of technologies to improve classroom instruction Investigating emerging pedagogies for preservice and in service teachers this publication is ideal for professionals researchers and educational designers interested in the implementation of technology in the mathematics classroom Enabling Mathematics Learning of Struggling Students Yan Ping Xin,Ron Tzur,Helen Thouless,2022-07-11 This book provides prospective and practicing teachers with research insights into the mathematical difficulties of students with learning disabilities and classroom practices that address these difficulties This linkage between research and practice celebrates teachers as learners of their own students mathematical thinking thus contributing an alternative view of mathematical progression in which students are taught conceptually The research based volume presents a unique collaboration among researchers in special education psychology and mathematics education from around the world It reflects an ongoing work by members of the International Group for the Psychology of Mathematics Education PME and the North American Chapter of the PME Working Groups The authors of chapters in this book who have been collaborating extensively over the past 7 years are from Australia Canada the United Kingdom and the United States

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