







# **Empty Number Line Math Strategies**

Jennifer Lawson, Susan Atcheson, Pat Steuart, Dayna Quinn-LaFleche, Denise MacRae

#### **Empty Number Line Math Strategies:**

Strategies for Teaching Whole Number Computation David B. Spangler, 2010-06-02 This book is a must have for anyone working to remediate students struggling with math It gets into the types of misconceptions students have and gives multiple ways to correct them Donna Adkins First Grade Teacher Perritt Primary School Arkadelphia AR The nuts and bolts approach to assessment and error analysis make this book a real tool for everyday use Judith A Filkins K 8 Math Curriculum Coordinator Lebanon School District NH A proven approach to mathematics teaching that adds up to student success When students make computational errors in mathematics often the prescribed solution is more drilling However by combining error analysis with timely and specific intervention based on conceptual understanding teachers can get to the cause of students errors uncover underlying misconceptions and help students understand and correct their mistakes The targeted interventions for each error pattern promote teaching for conceptual understanding and are supported by documented academic research David B Spangler a school math consultant with more than 35 years of experience provides a model that focuses on student error patterns in addition subtraction multiplication and division This book offers targeted instructional strategies based on the five NCTM process standards and includes four units each containing A diagnostic test in a multiple choice format An item analysis table that correlates incorrect test responses with student error patterns A detailed section of supporting intervention activities to address specific types of errors Practice exercises for students with answer keys Reflection questions for teachers to use in a professional development setting workshop or methods course With supporting research a section on big ideas in computation and problem solving and student reproducibles for games and activities Strategies for Teaching Whole Number Computation promotes a proactive and scaffolded approach to teaching mathematics in a meaningful way Hands-On Problem Solving, Grade 2 Jennifer Lawson, Susan Atcheson, Pat Steuart, Dayna Quinn-LaFleche, Denise MacRae, 2012-07-12 Hands On Problem Solving is an easy to use resource that helps teachers plan and implement best practices for teaching problem solving throughout the school year **Learning and Teaching Early Math** Douglas H. Clements, Julie Sarama, 2009-04-01 In this important new book for pre and in service teachers early math experts Douglas Clements and Julie Sarama show how learning trajectories help teachers become more effective professionals By opening up new windows to seeing young children and the inherent delight and curiosity behind their mathematical reasoning learning trajectories ultimately make teaching more joyous They help teachers understand the varying level of knowledge and thinking of their classes and the individuals within them as key in serving the needs of all children In straightforward no nonsense language this book summarizes what is known about how children learn mathematics and how to build on what they know to realize more effective teaching practice It will help teachers understand the learning trajectories of early mathematics and become guintessential professionals Math Instruction for Students with Learning Difficulties Susan Perry Gurganus, 2021-11-29 This richly updated third edition of Math Instruction for

Students with Learning Difficulties presents a research based approach to mathematics instruction designed to build confidence and competence in preservice and inservice PreK 12 teachers Referencing benchmarks of both the National Council of Teachers of Mathematics and Common Core State Standards for Mathematics this essential text addresses teacher and student attitudes towards mathematics as well as language issues specific mathematics disabilities prior experiences and cognitive and metacognitive factors Chapters on assessment and instruction precede strands that focus on critical concepts Replete with suggestions for class activities and field extensions the new edition features current research across topics and an innovative thread throughout chapters and strands multi tiered systems of support as they apply to mathematics Designing Effective Math Interventions Jessica Hunt, Jenny Ainslie, 2021-08-12 Design effective learner driven instruction math interventions with this accessible and thought provoking guidebook Learn how to set up instruction to promote participation and understanding plan purposeful targeted tasks develop student thinking and create tools to assess student work in a way that measures learning not just performance Chapters explore questions that educators frequently struggle with when designing interventions offering user friendly research and evidence based strategies to help overcome common hurdles This book is essential reading for anyone seeking an adaptive approach to Tier 2 and 3 interventions that positions struggling students as competent learners Mental Computation and Estimation Charalampos Lemonidis, 2015-12-01 Mental calculations and estimations are basic everyday skills that are essential for real life arithmetic operations and number sense This book presents a much needed overview and analysis of mental computation and estimation drawing on contemporary research and empirical studies that were conducted on students teachers and adults to cover all aspects of this complex field Mental Computation and Estimation analyses the implications that are involved in the research teaching and learning of mathematics and delivers effective practices that will enhance everyday learning for students Focusing on a range of international research and studies from the School of Nature and Life Mathematics in Greece it answers a number of important questions including What mental calculations and estimations are why they are important and what other mathematical concepts and cognitive behaviors are they related to What strategies are used on mental additions subtractions multiplications and divisions and how are multiplication tables learned What are the new trends in the teaching of mental calculation and estimation An invaluable resource for all those involved in the practice and research of mathematics education Mental Computation and Estimation will also be a useful tool for researchers policy makers and developers of educational programs **Issues in Teaching Numeracy in Primary Schools** Ian Thompson, 2010-06-16 Issues in Teaching Numeracy in Primary Schools is a bestselling guide for all trainee and practising primary school teachers classroom assistants and mathematics specialist teachers It provides an accessible guide to a wide range of research evidence about teaching and learning mathematics Major changes in the primary mathematics curriculum in recent years such as those recommended in the National Numeracy Strategy the Primary National Strategy the Early Years Foundation Stage the

Williams Rose and Alexander Reviews are reflected throughout the book The new edition comprises fourteen new chapters including a section devoted to post Williams issues and four popular chapters that have been retained and updated in light of the vast changes in the field Key topics include Using resources ICT AfL and problem solving approaches effectively Learning from errors and misconceptions Developing mental and written calculation The gifted and talented Transition from EYFS into Key Stage 1 Intervention and the Every Child Counts programme This popular book is essential reading for all trainee and practising primary school teachers classroom assistants and mathematics specialist teachers. The chapters can be read in a standalone fashion and many are cross referenced to other parts of the book where specific ideas are dealt with in a different manner Contributors Mike Askew Patrick Barmby Meindert Beishuizen Margaret Brown Kev Delaney Nick Dowrick Sylvia Dunn Richard English Sue Gifford Tony Harries Steve Higgins Jeremy Hodgen Louise Matthews Frank Monaghan Mike Ollerton Julie Ryan Ian Thompson John Threlfall Julian Williams Jan Winter What Really Works in Elementary Education Wendy W. Murawski, Kathy Lynn Scott, 2015-02-18 Research Based Practical Strategies for Every Teacher In an age of information overload do you ever wish you could find one resource that would allow you to quickly gain insight into a variety of cutting edge practices in elementary education You re holding it at your fingertips What Really Works in Elementary Education compiles the advice of experts who not only understand the research behind certain educational practices but also have experience working in elementary classrooms Each user friendly chapter focused on a topic vital to elementary educators presents information in a straightforward way to help you learn what works and what does not work with students today Whether you re a new educator or just seeking to build new skills you ll benefit from Insight into a handful of innovative topics in instruction including using technology UDL co teaching and assessment Novel approaches to classroom management and strategies to engage students Chapters focused on effective methods for teaching within content areas Practical tips for reaching all learners including ELLs students with autism and gifted students Useful reproducibles and resources for every topic area Never before has so much valuable information been presented so simply and effectively in one resource Are you ready to focus on what works best **Debates in Mathematics Education** Dawn Leslie, Heather Mendick, 2013-10-01 Debates in Mathematics Education explores the major issues that mathematics teachers encounter in their daily lives It engages with established and contemporary debates promotes and supports critical reflection and aims to stimulate both novice and experienced teachers to reach informed judgements and argue their point of view with deeper theoretical knowledge and understanding Written by experts in the field of mathematics education it investigates and offers fresh insight into topics of central importance including Gender social inequality and mathematics Mathematics politics and climate change The history and culture of mathematics Using popular culture in the mathematics classroom The concept of ability and its impact on learning What we mean by teaching for understanding Choosing and using examples in teaching The fitness of formal examinations Designed to stimulate discussion and support you in your own research writing and practice

Debates in Mathematics Education will be a valuable resource for any student or practising teacher engaged in initial teacher training continuing professional development or Masters level study It also has much to offer to those leading initial teacher education programmes and to beginning doctoral students looking for a survey of the field of mathematics education Math Workshop, Grade 2 Carson Dellosa Education, Angela Triplett, 2018-02-21 Math Workshop for second grade provides complete small group math instruction for these important topics arrays skip counting addition and subtraction strategies measuring length Simple and easy to use this teacher resource for second grade math teachers complements any curriculum Like reading and writing workshops math workshop is an instructional model that combines whole group lessons with leveled guided math groups and independent practice It allows teachers to give students direct leveled instruction while providing opportunities for practice and skill review Math Workshop for second grade simplifies the workshop method with a comprehensive introduction and over 25 step by step lessons This teacher resource for second grade math also includes these helpful features comprehensive lesson plans leveled practice pages hands on activities for every lesson The Math Workshop series for kindergarten through fifth grades gives teachers everything they need to implement the math workshop method Each book contains 28 complete lessons a thorough introduction and reproducible game templates Each lesson begins with an essential question a warm up activity and a whole group lesson It is followed by three leveled small group lessons and a short assessment Lessons are rounded out with a practice worksheet for each small group and an activity to practice the skill Teachers are also provided with math talk questions and a math journal prompt to extend learning The Math Workshop series gives teachers the flexible tools needed to begin small group math instruction

Hands-On Problem Solving, Grade 4 Jennifer Lawson, Dianne Soltess, Dayna Quinn-LaFleche, 2012-11-19 Hands On Problem Solving is an easy to use resource that helps teachers plan and implement best practices for teaching problem solving throughout the school year Understanding and Teaching Primary Mathematics in Australia Tony Cotton, Jess Greenbaum, Michael Minas, 2022-08-30 Written by experienced teacher educator and author Tony Cotton and two Australian primary teachers Jess Greenbaum and Michael Minas Understanding and Teaching Primary Mathematics in Australia combines pedagogy and mathematics subject knowledge to build teachers confidence both in their mathematical subject knowledge and in their ability to teach mathematics effectively The book covers all the key areas of the Australian Curriculum for mathematics from teaching number and calculation strategies to exploring geometry and statistics There are also chapters that deal with the teaching of mathematics in the Early Years inclusive approaches to mathematics teaching and teaching mathematics using ICT Stimulating accessible and containing a wealth of practical ideas for use in the classroom Understanding and Teaching Primary Mathematics in Australia is an essential text for graduate and practicing teachers alike

A Focus on Addition and Subtraction Caroline B. Ebby, Elizabeth T. Hulbert, Rachel M.

Broadhead, 2020-11-23 This innovative text offers a unique approach to making mathematics education research on addition

subtraction and number concepts readily accessible and understandable to pre service and in service teachers of grades K 3 Revealing students thought processes with extensive annotated samples of student work and vignettes characteristic of teachers experiences this book provides educators with the knowledge and tools needed to modify their lessons and improve student learning of additive reasoning in the primary grades Based on research gathered in the Ongoing Assessment Project OGAP this engaging easy to use resource features practical resources such as A close focus on student work including 150 annotated pieces of student work to help teachers improve their ability to recognize assess and monitor their students errors and misconceptions as well as their developing conceptual understanding A focus on the OGAP Addition Subtraction and Base Ten Number Progressions based on research conducted with hundreds of teachers and thousands of pieces of student work In chapter sections on how Common Core State Standards for Math CCSSM are supported by math education research End of chapter questions to allow teachers to analyze student thinking and consider instructional strategies for their own students Instructional links to help teachers relate concepts from each chapter to their own instructional materials and programs An accompanying eResource available online offers an answer key to Looking Back questions as well as a copy of the OGAP Additive Framework and the OGAP Number Line Continuum A Focus on Addition and Subtraction marks the fourth installment of the popular A Focus on collection designed to aid the professional development of pre service and in service mathematics teachers Following from previous volumes on ratios and proportions multiplication and division and fractions this newest addition is designed to bridge the gap between what math education researchers know and what teachers need to know in order to better understand evidence in student work and make effective instructional decisions Workshop, Grade 5 Carson Dellosa Education, Elise Craver, 2018-02-21 Math Workshop for fifth grade provides complete small group math instruction for these important topics expressions exponents operations with decimals and fractions volume the coordinate plane Simple and easy to use this resource for fifth grade math teachers complements any curriculum Like reading and writing workshops math workshop is an instructional model that combines whole group lessons with leveled guided math groups and independent practice It allows teachers to give students direct leveled instruction while providing opportunities for practice and skill review Math Workshop for fifth grade simplifies the workshop method with a comprehensive introduction and over 25 step by step lessons This teacher resource for fifth grade math also includes these helpful features comprehensive lesson plans leveled practice pages hands on activities for every lesson The Math Workshop series for kindergarten through fifth grades gives teachers everything they need to implement the math workshop method Each book contains 28 complete lessons a thorough introduction and reproducible game templates Each lesson begins with an essential question a warm up activity and a whole group lesson It is followed by three leveled small group lessons and a short assessment Lessons are rounded out with a practice worksheet for each small group and an activity to practice the skill Teachers are also provided with math talk questions and a math journal prompt to extend learning The Math Workshop

series gives teachers the flexible tools needed to begin small group math instruction Hands-On Mathematics, Grade 3
Jennifer Lawson, 2006 This teacher resource offers a detailed introduction to the Hands On Mathematics program guiding principles implementation guidelines an overview of the processes that grade 3 students use and develop during mathematics inquiry and a classroom assessment plan complete with record keeping templates and connections to the Achievement Levels outlined in the Ontario Mathematics Curriculum It also provides strategies and visual resources for developing students mental math skills Each unit is divided into lessons that focus on specific curricular expectations Each lesson has materials lists activity descriptions questioning techniques problem solving examples activity centre and extension ideas assessment suggestions activity sheets and visuals Portage Main Press

Teaching Children Mathematics ,2008

Hands-On Mathematics, Grade 2 Jennifer Lawson, 2006 This teacher resource offers a detailed introduction to the Hands On Mathematics program guiding principles implementation guidelines an overview of the processes that grade 2 students use and develop during mathematics inquiry and a classroom assessment plan complete with record keeping templates and connections to the Achievement Levels outlined in the Ontario Mathematics Curriculum It also provides strategies and visual resources for developing students mental math skills Each unit is divided into lessons that focus on specific curricular expectations Each lesson has materials lists activity descriptions questioning techniques problem solving examples activity centre and extension ideas assessment suggestions activity sheets and visuals Portage Main Press Cognitive **Development from a Strategy Perspective Patrick Lemaire**, 2017-09-21 Cognitive Development from a Strategy Perspective recognises the outstanding scientific legacy of Robert S Siegler as a pioneer of modern research on cognitive development throughout the lifespan This volume presents a collection of essays written by leading scholars in the field using cutting edge research to illustrate how Siegler's work and ideas lay the groundwork for much of the modern studies on cognitive development The collection includes chapters which examine strategic aspects of lifespan cognitive development change mechanisms underlying cognitive development and numeracy acquisition with emphasis given to the application of new strategies for education It explores conceptual and methodological frameworks to best study and understand development during childhood and adulthood and the role of foundational core knowledge on development and acquisition These foundational issues are examined from various angles and finally integrated in a concluding panoramic chapter written by Siegler himself Cognitive Development from a Strategy Perspective offers valuable reading for graduates and researchers in cognitive development and mathematical cognition as well as those at the interface of psychology and education

<u>International Reflections on the Netherlands Didactics of Mathematics</u> Marja van den Heuvel-Panhuizen, 2019-08-13 This open access book inspired by the ICME 13 Thematic Afternoon on European Didactic Traditions takes readers on a journey with mathematics education researchers developers and educators in eighteen countries who reflect on their experiences with Realistic Mathematics Education RME the domain specific instruction theory for mathematics education developed in

the Netherlands since the late 1960s Authors from outside the Netherlands discuss what aspects of RME appeal to them their criticisms of RME and their past and current RME based projects It is clear that a particular approach to mathematics education cannot simply be transplanted to another country As such in eighteen chapters the authors describe how they have adapted RME to their individual circumstances and view on mathematics education and tell their personal stories about how RME has influenced their thinking on mathematics education Second Handbook of Research on Mathematics Teaching and Learning Frank K. Lester, 2007-02-01 The audience remains much the same as for the 1992 Handbook namely mathematics education researchers and other scholars conducting work in mathematics education This group includes college and university faculty graduate students investigators in research and development centers and staff members at federal state and local agencies that conduct and use research within the discipline of mathematics. The intent of the authors of this volume is to provide useful perspectives as well as pertinent information for conducting investigations that are informed by previous work The Handbook should also be a useful textbook for graduate research seminars In addition to the audience mentioned above the present Handbook contains chapters that should be relevant to four other groups teacher educators curriculum developers state and national policy makers and test developers and others involved with assessment Taken as a whole the chapters reflects the mathematics education research community s willingness to accept the challenge of helping the public understand what mathematics education research is all about and what the relevance of their research fi ndings might be for those outside their immediate community

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