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# Jump Strategy Empty Number Line

**Robert J Wright, Garry Stanger, Ann K  
Stafford, James Martland**



## **Jump Strategy Empty Number Line:**

Teaching Number in the Classroom with 4-8 Year Olds Robert J Wright, Garry Stanger, Ann K. Stafford, James Martland, 2014-10-17 Bring the principles and practice of the acclaimed Mathematics Recovery Programme to whole class teaching WHY INVEST IN THE NEW EDITION In full colour with a revised layout for clearer navigation More up to date tasks activities and real classroom examples Learning trajectories for guiding instruction and tracking progress on key topics Extra resources online on the companion website Part of the best selling Maths Recovery series this practical step by step guide to classroom instruction takes an inquiry based approach to assess children s knowledge and build on this to develop a firm foundation of understanding and confidence in mathematics Topics covered range from beginning number and early counting strategies to multi digit addition and subtraction right through to multiplication and division An invaluable resource for use on pre service teacher training courses and for all primary classroom teachers and assistants including experienced Mathematics Recovery instructors as well as learning support personnel primary mathematics advisors numeracy consultants and educational psychologists WHAT EXTRAS ARE ON THE COMPANION WEBSITE Downloadable extra chapter resources like print out grids worksheets cards and much more A Facilitator s Guide that can be used either individually or in group study to help you get the most out of the material In class video demonstrations to clearly show how the instructional activities in the book are used in the classroom Webinar discussing the key points in the book and how it supports your teaching Research informs practice in this easy to access resource Each chapter gives educators practical bite sized assessments linked to a host of activities that helps them target teaching and develop the firm foundations which are so vital for confident and competent mathematicians Jill Piotrowski Numeracy Consultant Wigan Local Authority UK The Classroom Instructional Framework in Early Number is research based and provides a roadmap of not only the what but the when and the how to teach all aspects of early number Vicki Nally Mathematics Consultant at Catholic Education Office Melbourne The structured approach offers a wealth of rich and easily implemented classroom based activities that work thousands of teachers in Ireland attest to this Noreen O Loughlin Director Maths Recovery and Maths Education Lecturer Mary Immaculate College Limerick Ireland

**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

quintessential professionals      Teaching Number in the Classroom with 4-8 Year Olds Ann K Stafford,2006-01-05 This user friendly resource presents an inquiry based approach to classroom instruction and covers beginning number and early counting strategies as well as multi digit addition subtraction multiplication and division      **Teaching Mathematics in Primary Schools** Robyn Jorgensen,2020-08-12 This is an outstanding book it should be high on the list of any primary school teacher's set of references and a required text for pre service teachers Australian Primary Mathematics Classroom In our technology rich world numeracy is just as important as the smartphone in your pocket Students need to develop mathematical ways of seeing the world and strong problem solving skills and those foundations are taught in the primary school classroom Teaching Mathematics in Primary Schools covers the mathematical content taught in primary and middle years always emphasising how students can connect what they learn in mathematics with other curriculum areas and with the world beyond the classroom The authors draw on the latest international research to show how teachers can develop a rich repertoire of classroom teaching techniques and effective planning assessment and reporting methods They outline approaches to creating supportive learning environments for all students and to building their knowledge and confidence in using mathematics This third edition has been updated throughout and includes a new chapter on numeracy Evidence based uses of digital technologies to support learning and teaching are included in every chapter With practical strategies that can be implemented in the classroom this book is an invaluable resource for pre service and early career primary and middle years mathematics teachers      *Early Childhood Mathematics Education Research* Julie Sarama,Douglas H. Clements,2009-04-01 This important new book synthesizes relevant research on the learning of mathematics from birth into the primary grades from the full range of these complementary perspectives At the core of early math experts Julie Sarama and Douglas Clements's theoretical and empirical frameworks are learning trajectories detailed descriptions of children's thinking as they learn to achieve specific goals in a mathematical domain alongside a related set of instructional tasks designed to engender those mental processes and move children through a developmental progression of levels of thinking Rooted in basic issues of thinking learning and teaching this groundbreaking body of research illuminates foundational topics on the learning of mathematics with practical and theoretical implications for all ages Those implications are especially important in addressing equity concerns as understanding the level of thinking of the class and the individuals within it is key in serving the needs of all children      **Developing Number Knowledge** Robert J Wright,David Ellemor-Collins,Pamela D Tabor,2011-11-04 Following the great success of the earlier books this fourth book in the Mathematics Recovery series equips teachers with detailed pedagogical knowledge and resources for teaching number to 7 to 11 year olds Drawing on extensive programs of research curriculum development and teacher development the book offers a coherent up to date approach emphasising computational fluency and the progressive development of students mathematical sophistication The book is organized in key domains of number instruction including structuring numbers 1 to 20 knowledge of number words

and numerals conceptual place value mental computation written computation methods fractions and early algebraic reasoning Features include fine grained progressions of instruction within each domain detailed descriptions of students strategies and difficulties assessment tasks with notes on students responses classroom ready instructional activities This book is designed for classroom and intervention teachers special education teachers and classroom assistants The book is an invaluable resource for mathematics advisors and coaches learning support staff numeracy consultants curriculum developers teacher educators and researchers

**Instructional Strategies for Improving Students' Learning** Jerry Carlson, Joel R. Levin, 2012-01-01 The twin objectives of the series Psychological Perspectives on Contemporary Educational Issues are 1 to identify issues in education that are relevant to professional educators and researchers and 2 to address those issues from research and theory in educational psychology psychology and related disciplines The present volume consisting of two focal chapters commentaries and final responses targets instructional strategies for improving students learning in two of the traditional three R areas reading and arithmetic mathematics in the elementary school grades The focal chapters in those two skill areas are written by leading contributors to the reading and mathematics research literatures Cathy Collins Block for the reading section and Douglas Clements and Julie Sarama for the mathematics section Few would dispute the essentiality of these two curricular domains in laying the foundation for the development of students competencies in a vast array of academic disciplines in both the in and out of school years that lie ahead The present volume is intended for practitioners and researchers who are seeking the latest instructional research based strategies for improving students early reading and mathematics performance

*Maths Assessment*, 2001

**Queensland Targeting Maths: Teaching guide** Garda Turner, Robyn Hurley, 2004

**NSW Targeting Maths** Garda Turner, 2002

**Developing Number Sense** Julia Anghileri, 2008-05-15 Developing Number Sense identifies innovative teaching practices and provides a rigorous treatment of arithmetic and its assessment at Key Stages two and three

[NSW Targeting Maths. Year 4](#) Robyn Hurley, 2002

**Physical Activity and Learning After School** Paula J. Schwanenflugel, Phillip D. Tomporowski, 2017-12-13 Subject Areas Keywords academic enrichment programs academic skills after school activities after school programs children elementary schools exercise games health promotion high poverty schools interventions kinesiology literacy mathematics obesity prevention physical education physical fitness public health reading social studies struggling learners students

DESCRIPTION Every school day more than 10 million children attend after

**Developing Primary Mathematics Teaching** Tim Rowland, Fay Turner, Anne Thwaites, Peter Huckstep, 2009-03-09 How can KS1 2 teachers improve their mathematics teaching This book helps readers to become better more confident teachers of mathematics by enabling them to focus critically on what they know and what they do in the classroom Building on their close observation of primary mathematics classrooms the authors provide those starting out in the teaching profession with a four stage framework which acts as a tool of support for developing their teaching making sense of foundation knowledge focusing on what teachers know

about mathematics transforming knowledge representing mathematics to learners through examples analogies illustrations and demonstrations connection helping learners to make sense of mathematics through understanding how ideas and concepts are linked to each other contingency what to do when the unexpected happens Each chapter includes practical activities lesson descriptions and extracts of classroom transcripts to help teachers reflect on effective practice

**MasterClass in Mathematics Education** Paul Andrews,Tim Rowland,2013-11-21 MasterClass in Mathematics Education provides accessible links between theory and practice and encourages readers to reflect on their own understanding of their teaching context Each chapter written by an internationally respected authority explores the key concepts within the selected area of the field drawing directly on published research to encourage readers to reflect on the content ideas and ongoing debates Using international case studies each chapter will encourage readers to think about ways that the teaching and learning of mathematics reflect different cultural traditions and expectations and enable them to evaluate effective strategies for their own contexts Overcoming Difficulties with Number Ronit Bird,2009-09-30 In writing this practical book Ronit Bird has drawn on her teaching and training experience to create teaching plans for key numeracy topics aimed at those working with students aged 9 16 She provides detailed strategies for teaching numeracy skills through a progression of practical activities and visualisation techniques which build the self esteem of students who need extra help and give them a basic foundation in number While the plans cover the National Numeracy Strategy they can also be used in any setting where maths is being taught Topics covered include games and puzzles for learning number components bridging multiplication division reasoning strategies A bank of accompanying resources games activities and Su Doku puzzles is available on the companion website for the book This is an ideal resource for both class teachers and maths subject teachers and is equally useful for teaching assistants and learning support assistants **Teaching Number** Robert J Wright,Garry Stanger,Ann K Stafford,James Martland,2006-08-30 The book lets teachers identify where their students are in terms of number skills and sets out a strategy for developing their knowledge The authors show how to advance children s learning across five stages of early arithmetical learning emergent perceptual figurative initial number and facile number This provides for increasingly sophisticated number strategies across addition subtraction multiplication and division as well as developing children s number word and numeral knowledge and their ability to structure number and have grouping strategies The approach used nine guiding principles for teaching Each chapter has clearly defined teaching procedures which show how to take the children onto the next more sophisticated stage The teaching procedures are organized into key teaching topics and each includes a clearly defined purpose detailed instructions activities learning tasks and reinforcing games lists of responses which children may make application in whole class small group and individualised settings a link to the Learning Framework in Number see Early Numeracy second edition 2005 how the guiding principles for teaching can be used to allow teachers to evaluate and reflect upon their practice Primary practitioners in Australia the United States the

United Kingdom and Canada have tested the teaching procedures which can be used in conjunction with each country's numeracy strategy. Primary teachers especially of the early years mathematics coordinators, heads of school mathematics advisers, special educationalists, learning support personnel, teacher assistants, lecturers in initial teacher training and educational psychologists will all find this book invaluable. *Pattern and Structure Mathematics Awareness Program* Michael Mitchelmore, Joanne Mulligan, 2025-03-13

The Pattern and Structure Mathematical Awareness Program PSMAP is a network of related learning experiences developed for children in the first three years of formal schooling: Foundation to Year 2. It is based on research evidence that the foundation of mathematical development is an awareness of mathematical pattern and structure and that engaging children in exploring core patterns and their structure leads to an improvement in general mathematical understanding. PSMAP focuses on developing children's awareness of the patterns and structures that underlie the concepts and processes common to all the early Australian Curriculum Mathematics strands. PSMAP Book One is primarily intended for children in Foundation and Year 1.

**Mine the Gap for Mathematical Understanding, Grades 3-5** John SanGiovanni, 2016-09-16

Being an effective math educator is one part based on the quality of the tasks we give, one part how we diagnose what we see, and one part what we do with what we find. Yet with so many students and big concepts to cover, it can be hard to slow down enough to look for those moments when students' responses tell us what we need to know about next best steps. In this remarkable book, John SanGiovanni helps us value our students' misconceptions and incomplete understandings as much as their correct ones because it's the gap in their understanding today that holds the secrets to planning tomorrow's best teaching. SanGiovanni lays out 180 high-quality tasks aligned to the standards and big ideas of Grades 3-5 mathematics, including addition and subtraction of multi-digit whole numbers, multiplication and division of single and multi-digit whole numbers, foundational fraction concepts, foundational decimal concepts, and operations with fractions and decimals. The tasks are all downloadable so you can use or modify them for instruction and assessment. Each big idea offers a starting task followed by what makes it a high-quality task, what you might anticipate before students work with the task, 4 student examples of the completed task showcasing a distinct gap, commentary on what precisely counts for mathematical understanding, and the next instructional steps. Commentary on the misconception or incomplete understanding so you learn why the student veered off course, three additional tasks aligned to the mathematics topic and ideas about what students might do with these additional tasks. It's time to break our habit of rushing into re-teaching for correctness and instead get curious about the space between right and wrong answers. *Mine the Gap for Mathematical Understanding* is a book you will return to again and again to get better at selecting tasks that will uncover students' reasoning, better at discerning the quality and clarity of students' understanding, and better at planning teaching based on the gaps you see.

*Pattern and Structure Mathematics Awareness Program* Joanne Mulligan, Michael Mitchelmore, 2025-03-13

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