

Supporting Early Mathematical Development

**Practical Approaches to Play-Based
Learning**

SECOND EDITION

Caroline McGrath



Supporting Mathematical Development In The Early Years

J Spring



Supporting Mathematical Development In The Early Years:

Supporting Mathematical Development In The Early Years Pound, Linda, 2006-05-01 Review of the first edition All the major areas of early childhood maths teaching and learning are covered in this powerful book The book is also full of delightful stories It would be eminently suitable for beginning and trainee teachers but would also be helpful to all those concerned in early years settings All the relevant information is here based on a wealth of knowledge and experience TES Supporting Mathematical Development in the Early Years provides practical guidance for parents teachers and other early years workers who want to give children a good start in mathematical development Showing how competent children are as mathematicians from an early age the book offers an overview of young children s mathematical behaviour at home and in early years settings The book defines the content and the learning curriculum required to promote mathematical thinking including an examination of the relationship between mathematics and language learning and the role of other cross curricular aspects such as information and communications technology ICT It explores the role of staff in observing planning for and supporting children s learning by using a variety of strategies and makes suggestions for promoting effective partnerships between the parents or principal carers and early years staff The book also considers the importance of play and imagination to the development of abstract thought The second edition is comprehensively updated throughout and includes new material on Special Educational Needs the very early years the role of play the role of ICT and examples of outdoor play It is essential reading for early years teachers and students as well as parents who want to understand and develop their children s early mathematical learning [Supporting Early Mathematical Development](#) Caroline

McGrath, 2010-07-12 Supporting Early Mathematical Development is an essential text for current Early Years practitioners and students offering an excellent blend of theory and practice that will enable you to provide successful mathematical education for children from birth to eight years old Charting the delivery of mathematical development in Playgroups Children s Centres Nurseries and Primary Schools it forges links between current practice and fundamental Early Years principles and makes suggestions for creating effective pedagogies in maths teaching Promoting mathematical development through play based learning this book presents a wealth of practical multi sensory teaching strategies instructional methodologies activity ideas incorporating play books songs cookery and the outdoors examples of children s work advice on translating theory into practice questions for reflective practice Throughout the book Caroline McGrath breaks down the complexity of teaching and learning mathematics into simple steps and guides readers through possible gaps in their knowledge bringing fresh enthusiasm to teaching mathematics This is an invaluable resource for practitioners and trainee teachers wishing to strengthen their mathematical teaching and professional practice or for students on a wide range of Early Years courses **How to Recognise and Support Mathematical Mastery in Young Children's Play** Di

Chilvers, 2021-07-12 This book explains how young children develop mathematically in their earliest years and shows the

support and teaching needed by adults to accelerate their progress and attainment helping them master mathematical concepts and skills The practical guidance has been carefully developed over a number of years and is based on research undertaken with primary schools in Sheffield as part of the Talk for Maths Mastery initiative It recognises that children s mathematical development is embedded within child led play and connected to deeper levels of thinking and wider dispositions for learning Maths is happening everywhere at any moment we just need to keep an open mind open eyes and listen Including case studies links to practice and reflective questions the chapters reveal what mastery orientation looks like from the children s perspective in their learning and covers children s serve and return conversational talk mathematical babies and their developmental momentum schematic patterns of thinking mathematical mark making child led play problem solving creative and critical thinking how adults can support children s mathematical talk thinking and mastery This book will help all early years practitioners and teachers working with children throughout the EYFS and KS1 build their understanding knowledge experience and confidence of engaging in early mathematics

Thinking and Learning About Mathematics in the Early Years Linda Pound,2008-03-20 An exploration of children s mathematical development to show how you can encourage and enhance the numeracy skills of any child in the early years by linking maths to every day life and making it a playful and enjoyable cross curricular activity

The Development of Early Childhood Mathematics Education,2017-08-24 The Development of Early Childhood Mathematics Education Volume 53 in the Advances in Child Development and Behavior series includes chapters that highlight some of the most recent research in the field of developmental psychology Users will find updated chapters on a variety of topics including sections on The DREME Network Research and Interventions in Early Childhood Mathematics The Use of Concrete Experiences in Early Childhood Mathematics Instruction Interventions in Early Mathematics Avoiding Pollution and Dilution Coaching in Early Mathematics and Designing Studies to Test Causal Questions About Early Math The Development of Making Pre K Count Each chapter provides in depth discussions with this volume serving as an invaluable resource for developmental or educational psychology researchers scholars and students Contains chapters that highlight some of the most recent research in the area of child development and behavior Presents a wide array of topics that are discussed in detail

Engaging Families as Children's First Mathematics Educators Sivanes Phillipson,Ann Gervasoni,Peter Sullivan,2016-11-21 This book explores how professionals can engage and inspire parents to support their young children s mathematics learning Bringing together international experts researchers and scholars it proposes a framework for engaging with and supporting parents including those who are less aware of the crucial development of children s mathematical skills in the early years Focusing on mathematics learning from birth to 5 years the book s underlying assumption is that it is possible to offer guidance to professionals working with families with young children concerning how to engage and support families in the area of mathematics learning including those families who seem alienated from education services Specifically the respective

chapters present a framework for understanding children's early mathematical development and the important role of families in this regard. They describe effective strategies for engaging families in their children's mathematics learning, including those who are marginalised and experience multiple disadvantages, so that all families can best support their children's mathematical learning and their development of positive attitudes towards learning. In closing hurdles and opportunities within the systems surrounding family engagement are addressed.

Hispanic Journal of Behavioral Sciences, 2007

Professionalism in the Early Years Linda Miller, Carrie Cable, 2008. Professionalism in the Early Years reflects the new government agenda demanding higher levels of professionalism in the Early Years sector as set out in the Children's Workforce Strategy. The Department for Children, Schools and Families (DCSF) and Children's Workforce Development Council (CWDC) aim to transform and professionalise the early years workforce through the creation of new roles such as the Early Years Professional (EYP) for those leading and working in Children's Centres and in the private and voluntary sector. This text is written by national and international authorities in the field, all of whom are involved in teaching, training and research or at policy level. The editors have been closely involved with development of the government agenda on professionalising the Early Years workforce. Professionalism in the Early Years covers a wide range of issues including: DT routes to professionalism; DT policy developments; DT multi-professional collaboration and multi-agency working; DT international perspectives; DT rethinking professionalism; DT key themes and issues within the Early Years workforce. A truly groundbreaking publication for a new generation of the Children's Workforce. Professionalism in the Early Years sets out the agenda to shape the future of this workforce. Student-friendly, accessible and authoritative, this is the ideal core reader for all those embarking on their professional development within the Early Years sector.

Supporting Mathematical Thinking with Anne Watson, 2001

Planning an Appropriate Curriculum for the Under-fives Rosemary Rodger, 2003. The foundation stage has a fundamental role in the laying of foundations for children's learning. In this new edition, the author uses a wide range of material, including research evidence, to offer an additional dimension to work currently taking place in the Foundation Stage. Each chapter includes the early learning goals for the majority of children and advice on providing for each area of learning: personal, social and emotional development; language and literacy; mathematics; knowledge and understanding of the world; and physical and creative development. Students training to be specialist early years teachers and those already working in the sector will welcome this up-to-date guide to planning and providing for high-quality learning experiences for children under five. With case studies of good practice, practical help in writing an early years policy and guidance on assessment and devising an effective post-inspection plan, this is a truly comprehensive guide to planning and implementing an appropriate curriculum for the under-fives.

Mathematics Explained for Primary Teachers Derek Haylock, 2006-01-26. See also accompanying CD-ROM *Teaching Children*

Mathematics, 2001 **Twenty Years of European Cooperation in Space, '64-'84** European Space Agency, 1984 **The British National Bibliography** Arthur James Wells, 2009 *Numeracy in Early Childhood* Agnes Macmillan, 2009 Covers all the topics which are important for those studying to become early childhood practitioners Focuses on using everyday language and objects to teach numeracy skills to young children **Teaching Mathematics through Story** Caroline McGrath, 2014-06-27 How do you make mathematics relevant and exciting to young children How can mathematics and literacy be combined in a meaningful way How can stories inspire the teaching and learning of mathematics This book explores the exciting ways in which story can be used as a flexible resource to facilitate children's mathematical thinking It looks at the potential relationship between story and mathematics and practically demonstrates how they can be combined to help children connect understand and express mathematical ideas using story language Written for all early years practitioners and students the book offers a playful pedagogical approach to facilitating children's mathematical thinking which brings a creative satisfaction and confidence to teaching mathematics Encouraging a creative approach to teaching mathematics that draws on picture books and oral mathematical stories the book shows you how to Move from reading to telling stories with mathematical themes Encourage children to pose and solve problems by playing with the plot of stories Enable children to translate abstract mathematical ideas to concrete representations with supporting story props and puppets Create original oral mathematical stories alongside children Capture children's mathematical thinking in an observational framework supported with audio or video recordings which can be shared with parents and colleagues There are free audio recordings of children and adults telling oral mathematical stories which feature in the book These can be downloaded from www.routledge.com 9780415688154 This book draws on practical work with children educators parents professional storytellers and trainee practitioners who bring theoretical ideas to life and offer insight into their mathematical story experiences It is a must have for all those who want to make mathematics relevant accessible and imaginative for young children [Book Review Index](#), 2003 Vols 8 10 of the 1965 1984 master cumulation constitute a title index

Measuring Teachers' Knowledge of Early Mathematical Development and Their Beliefs about Mathematics
Teaching and Learning in the Preschool Classroom Linda Michele Platas, 2008 [Boletín Internacional de Bibliografía Sobre Educación](#), 2000 [Observing Harry](#) Cath Arnold, 2003-10 Harry is a determined little boy who is intrinsically motivated to explore his world His parents and grandparents keep a written and video diary of his play from eight months to five years This text offers theories about how children learn and applies the theories to the observations of Harry

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web the dally flow 8 liters x 3 24 liters 30 llters x 1 30 liters the dally flow 54 liters per day on site estimating this method is similar to on site measurement except that the following tables are used to estimate quantities instead of measuring the capacity of

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