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classroom based research in mathematics education Ralph Manning is an independent consultant in primary education He has worked as a primary teacher and as a lecturer in primary teacher education for 18 years following a career in IT interactivity only available through Vitalsource eBook Mathematics For Primary Teachers Valsa Koshy,Ron Casey,Paul Ernest,2014-04-08 This book combines accessible explanations of mathematical concepts with practical advice on effective ways of teaching the subject Section A provides a framework of good practice Section B aims to support and enhance teachers subject knowledge in mathematical topics beyond what is taught to primary children Each chapter also highlights teaching issues and gives examples of tasks relevant to the classroom Section C is a collection of papers from tutors from four universities centred around the theme of effective teaching and quality of learning during this crucial time for mathematics education Student Workbook for 'Mathematics Explained for Primary Teachers' Derek Haylock,Ralph Manning,2010-07-12 This Workbook provides students with an attractive and engaging means of reviewing reinforcing and applying the material of Mathematics Explained for Primary Teachers Fourth Edition chapter by chapter The material in the workbook has been tested and endorsed by primary PGCE trainees Detailed solutions and explanatory notes are provided at the end of the book for each task The self assessment tasks are of three kinds Checking Understanding Tasks designed to help the reader to check their own understanding of key concepts and principles and their mastery of important skills in each chapter Processes and Applications Tasks that provide opportunities to apply the mathematical content of each chapter in real life situations and in puzzles problems investigations and other mathematical challenges Teaching and Learning tasks that provide opportunities for the reader to consider their responses to children s errors and misunderstandings and to consider the content of each chapter in terms of approaches to teaching and learning in a primary school context

Mathematical Knowledge for Primary Teachers Andrew Davis,Jennifer Suggate,Maria Goulding,2010-04-05 Now in its fourth edition the bestselling text Mathematical Knowledge for Primary Teachers provides trainee teachers with clear information about the fundamental mathematical ideas taught in primary schools With rigorous and comprehensive coverage of all the mathematical knowledge primary teachers need the text goes beyond rules and routines to help readers deepen their understanding of mathematical ideas and increase their confidence in teaching these ideas Fully updated to incorporate recommendations of the Williams review new sections are included covering talk for learning in mathematics with an emphasis placed on the language and vocabulary used in arithmetic contexts Throughout the book knowledge is linked to the TDA standards for Qualified Teacher Status and features include Check questions to test the reader s understanding Challenges to increase teachers confidence and stretch their mathematical abilities Links with the classroom to emphasise the relevance of ideas to the classroom context Straightforward coverage from theory to practice for all aspects of the Mathematics framework The book is accompanied by e resources which contain further visual activities and support designed to scaffold and support the reader s own understanding Essential reading for all practising and trainee primary

teachers this book is ideal for those who wish to increase their mathematical understanding and confidence in presenting mathematics in the classroom

Understanding Mathematics for Young Children Derek Haylock, Anne D

Cockburn, 2008-10-14 This book is the ideal way to dispel some of the fears which surround the subject area of mathematics and should be an essential part of the professional development library of every early years setting provider for children aged three and over Early Years Update A book that is both readable and rigorous Its guidance will help teachers to make mathematics meaningful to young children Throughout the book connections are made which relate language symbols concrete materials and pictures to the key ideas that are central to effective learning for the 21st century This book will help teachers gain a depth of understanding that will make them confident in engaging children with real mathematical thinking Dr J E Anghileri Senior Lecturer in Mathematics and Mathematics Education Faculty of Education University of Cambridge This is an updated version of a classic text which has been a best seller among teachers and student teachers for many years Being always strongly grounded in the classroom it develops in a non intimidating way teachers own understanding of the mathematics they are teaching Many insightful examples of children s thinking and appropriate activities help to illustrate the points This is an essential book for teachers of Early Years and Key Stage 1 Margaret Brown Professor of Mathematics Education King s College London UK This is a fully revised version of the authors successful and much used book

Understanding Mathematics in the Lower Primary Years updated to include the current Foundation Stage Curriculum and the new Primary Framework in England The authors empower the reader to have a clearer understanding of the mathematical ideas behind the material they use in the classroom They also show how children can be helped to develop an understanding of mathematics for themselves rather than just learning recipes and routines with little meaning Major themes are Understanding through making connections Equivalence and transformation Using and applying mathematics It is written for teachers and teacher trainees engaged in teaching mathematics to children aged 3 to 8 years It is an essential student text and professional reference work for all teachers of children aged 3 to 8 years Dr Derek Haylock is an education consultant and author working in the field of mathematics education His book Mathematics Explained for Primary Teachers has been a leader in the field for many years with a third edition published in 2006 Dr Anne Cockburn is a Reader in the School of Education and Lifelong Learning at the University of East Anglia Norwich Watch the authors talking about their book here [YouTube](#)

Mastery Mathematics for Primary Teachers Robert Newell, 2023-04-26

This book examines how mathematical mastery influenced by East Asian teaching approaches can be developed in UK schools to enhance teaching and to deepen children s mathematical knowledge It gives guidance on using physical resources to demonstrate key concepts extended examples on how to teach different curriculum topics and how to plan for small step progression It argues that effective mastery teaching requires careful and knowledgeable support for primary teachers who may not yet be maths specialists New to this second edition New chapter on variation theory and practice Updated case studies exploring how

mastery teaching has evolved Updated review of current mastery resources available to UK teachers Robert Newell is a lecturer at the UCL Institute of Education London

Mastery in Primary Mathematics Tom Garry, 2020-02-06 Mastery in Primary Mathematics contains clear practical guidance for both teachers and leaders on how to implement a mastery approach in the classroom that transcends any particular context school type or scheme currently being used Filled with research based evidence case studies and concrete examples of teaching for mastery used successfully this is the ideal toolkit to implementing a mastery approach across a school regardless of expertise Moulding pupils into confident and successful mathematicians is one of the most important jobs of a primary school It can also be one of the most difficult Teaching for mastery gives pupils the best possible understanding of mathematics and implementing it involves a two pronged approach mastery must be embedded in the classroom but will only work with the full support of the school s leadership team Based on educational research and school case studies Mastery in Primary Mathematics gives practical advice on introducing and sustaining teaching for mastery with sections for both class teachers and school leaders In this must have guide Tom Garry NCETM Maths Mastery Specialist Teacher covers the areas of variation theory mathematical reasoning and the use of correct mathematical language and equips leaders with the necessary tools to make the mastery approach work across a school With a view to planning at three levels curricular unit and lesson in order to fully arm educators with the means to plan effectively Tom draws on cognitive science as current developments in this field are crucial to understanding how children learn

Tasks in Primary Mathematics Teacher Education Barbara Clarke, Barbro Grevholm, Richard Millman, 2008-10-25 Tasks in Primary Mathematics Teacher Education is intended to advance relevant research and innovative international practices in the preparation and professional development of mathematics teachers Emerging from discussion at the ICMI study on teacher professional development this volume focused on primary and elementary teachers culls a richness that can only be found by gathering wisdom from varied experiences around the world The choice of tasks and the associated pedagogies is a key aspect of teaching and learning mathematics Arguing that what students learn is largely defined by the tasks they are given several major themes are presented One such major strand the form function and focus of tasks is discussed throughout several chapters offering analysis discussion of implementation and exemplars of a broader category of illustrative techniques for developing critical understanding

What Primary Teachers Should Know about Maths Aileen Duncan, 1996 Fully revised for the new National Curriculum England and Wales this book provides guidance for teachers who are teaching the mathematical content related to Key Stage 1 and 2 Levels A E in Scotland and Levels 1 5 in Northern Ireland

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