



# **Primary Mathematics**

Alison Millett, Margaret Brown, Mike Askew

#### **Primary Mathematics:**

**Primary Mathematics** Penelope Baker, Rosemary Callingham, Tracey Muir, 2023-09-07 Primary Mathematics Integrating Theory with Practice is a comprehensive introduction to teaching mathematics in Australian primary schools Closely aligned with the Australian Curriculum it provides a thorough understanding of measurement geometry patterns and algebra data and statistics and chance and probability The fourth edition provides support for educators in key aspects of teaching planning assessment digital technologies diversity in the classroom and integrating mathematics content with other learning areas It also features a new chapter on the role of education support in the mathematics classroom Each chapter has been thoroughly revised and is complemented by classroom snapshots demonstrating practical application of theories activities to further understanding and reflection questions to guide learning New in this edition are Concepts to consider which provide a guided explanation and further discussion of key concepts to support pre and in service teachers learning and teaching of the fundamentals of mathematics **Primary Mathematics** Heather Cooke, 2000 Designed for self study this book helps teachers extend and consolidate their understanding of essential mathematical topics **Primary Mathematics** Penelope Serow, Rosemary Callingham, Tracey Muir, 2019-08-07 Provides a comprehensive introduction to teaching and learning mathematics in today s classrooms **Primary Mathematics Across the Curriculum** Alice Hansen, Diane Vaukins, 2012-05-23 This book supports trainee teachers working towards primary QTS in teaching primary mathematics across all areas of the curriculum This Second Edition is linked to the 2012 Teachers Standards Focused on teaching a more integrated and inclusive curriculum the text draws out meaningful cross curricular links and embraces the latest thinking and current good practice in mathematics teaching It begins with a section on teaching mathematics covering all strands of the curriculum and goes on to offer guidance on the use and application of mathematics more generally across subjects A chapter on using mathematics to enable learning highlights the importance of being able to use mathematics effectively in other aspects of the teacher's role Interactive activities and case studies link theory to practice and encourage the reader to rethink how mathematics is taught in primary schools About the Transforming Primary QTS series This series reflects the new creative way schools are begining to teach taking a fresh approach to supporting trainees as they work towards primary QTS Titles provide fully up to date resources focused on teaching a more integrated and inclusive curriculum and texts draw out meaningful and explicit cross curricular links Primary Mathematics Curriculum Guide Harvey Blair, Pat Hughes, 2014-04-08 This is a curriculum guide that gives trainee teachers the opportunity to follow a tried and tested primary mathematics curriculum course The text is easy to follow up to date with good current practice and utilizes materials produced by the DfEE for teachers It includes interactive tasks to enhance understanding tasks to consolidate learning at the reader s own level and pace a full bibliography for further reading common misconceptions which the reader will find in children's work and a detailed look at the National Numeracy Strategy NNS and the mathematics National Curriculum The

text will provide a firm foundation for teaching mathematics to primary school children and give the reader genuine confidence in their teaching The text has been piloted by students following a distance learning primary PGCE and revised in line with their comments The intention of the book is to provide secure subject knowledge for mathematics alongside an understanding of the ways in which children learn mathematics Primary Mathematics: Teaching Theory and Practice Claire Mooney, Mary Briggs, Mike Fletcher, Alice Hansen, Judith McCullouch, 2009-05-26 This invaluable coursebook is designed for all trainees working towards Qualified Teacher Status QTS Covering the essential skills of planning monitoring and assessment and class management it relates these specifically to primary mathematics Separate sections examine management of mathematics learning and progression and misconceptions in mathematics topics. The text is structured around the current curriculum and incorporates the Primary National Strategy Content is linked to the 2007 QTS Standards This fourth edition makes links with the Early Years Foundation Stage **Primary Mathematics: Knowledge and** Understanding Claire Mooney, Alice Hansen, Reg Wrathmell, Sue Fox, Lindsey Ferrie, 2011-06-17 The essential subject knowledge text for primary mathematics Secure subject knowledge and understanding is the foundation of confident creative and effective teaching The 5th edition of this popular text has a number of new features including a new self assessment section and M level extension boxes to provide further challenge in all chapters References to the 2007 QTS Standards and the Early Years Foundation Stage are also included With full coverage of the mathematics curriculum and updated research summaries reflecting the latest thinking this text is written to help trainee primary teachers develop and consolidate their knowledge of mathematics Key Concepts in Teaching Primary Mathematics Derek Haylock, 2007-09-17 Covering the key principles and concepts in the teaching and learning of mathematics in primary schools this text provides trainee and practising teachers with a quick and easy reference to what they need to know for their course and in the classroom The entries are arranged alphabetically and each contains a brief definition followed by an explanation and discussion practical examples and annotated suggestions for further reading Examples of the wide ranging material include Anxiety about mathematics Assessment for Learning Cognitive conflict Concept learning Creativity in mathematics Differentiation Equivalence Explanation Investigation Low attainment Making connections Meaningful context Mental calculation Numeracy Play as a context for learning mathematics Problem solving Questioning Talk Primary Mathematics and the Developing Professional Alison Millett, Margaret Brown, Mike Askew, 2007-07-11 Abstract This introduction sets the scene for the remainder of the book by considering first the international context of widespread concern about the improvement of numeracy skills This is related to reform movements in the United Kingdom the United States and other countries aimed at modernising primary elementary school mathematics curricula A detailed account is given of the National Numeracy Strategy in England a systemic government imposed response to concern about standards implemented in 1999 2000 This includes a discussion of the alternative meanings of numeracy An earlier initiative sponsored by a United Kingdom charitable

trust reacting to concern about primary numeracy was the Leverhulme Numeracy Research Programme This large scale longitudinal study and linked set of case study projects focusing on reasons for low attainment took place during 1997 2002 This book and each other in the same series is based on results of that research The timescale fortuitously enabled the research team to also report on some effects of the systemic reform in the National Numeracy Strategy 1 THE INTERNATIONAL CONTEXT In many countries there are recurring periods of national concern about the low standards of calculation skills shown by children in primary elementary schools Recently these concerns have become more urgent and more political with the publication of international comparisons of mathematical achievement first at secondary and more recently at primary level e g Lapointe Mead Mullis et al 1997 **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

Primary Mathematics for Trainee Teachers Marcus Witt,2014-11-19 With chapter sequencing following the new Curriculum this book supports trainee Primary school teachers to make use of the opportunities presented in the new National Curriculum for effective and engaging Mathematics teaching Covering all of the areas of the new Curriculum for primary mathematics and offering insight into effective teaching this book helps students connect what they need to teach with how it can be taught Exploring opportunities in the new curriculum for creative and imaginative teaching it shows readers how to capitalize on opportunities to develop children's reasoning and problem solving skills It explores how to make links between mathematics and children's lived experiences to enhance their learning and enables trainees to develop an ability to plan with discernment making the most of existing thinking and research as well as building confidence in adapting and customizing ideas Includes the full National Curriculum Programme of Study for Maths key stages 1 and 2 as a useful reference for trainee teachers Other books in this series include Primary English for Trainee Teachers Meeting the Standards in Primary Mathematics Tony Brown,2003-09-02 This book guides readers through the professional standards and requirements to reach Qualified Teacher Status explaining what trainees need to know The author discusses the best ways of developing mathematical knowledge and teaching skills and how to acquire the professional know how needed to complete the training successfully will help readers to understand the Standards related to mathematics teaching offer detailed

guidance on the primary mathematics curriculum help readers prepare for the QTS skills test help readers to develop the pedagogical knowledge that you need for effective teaching of mathematics help readers prepare for school based training provide ideas suggestions and further reading to support during their training and their NQT year This practical guide to meeting the standards is invaluable for students on primary training courses lecturers and mentors supporting trainees in mathematics education programmes and newly qualified teachers Understanding and Enriching Problem Solving in Primary Mathematics Patrick Barmby, David Bolden, Lynn Thompson, 2025-02-28 This up to date book is essential reading for all those teaching or training to teach primary mathematics Problem solving is a key aspect of teaching and learning mathematics but also an area where teachers and pupils often struggle Set within the context of the new primary curriculum and drawing on research and practice the book identifies the key knowledge and skills required in teaching and learning problem solving in mathematics and examines how these and can be applied in the classroom It explores the issues in depth while remaining straightforward and relevant emphasises the enrichment of maths through problem solving and provides opportunities for teachers to reflect on and further develop their classroom practice Improving Primary Mathematics Education, Teaching and Learning Mellony Graven, Hamsa Venkat, 2017-01-19 This book focuses on how to improve the teaching and learning of primary level mathematics education within resource constrained contexts It builds on two large numeracy projects within South Africa which speak to broader global concerns and highlight how research and development not only enables one to meet ethical imperatives but also explore how further interventions can be developed Teacher and research communities must work together to create mutually beneficial relationships and establish a cohesive understanding of the requirements of primary mathematics education Primary Mathematics Pedagogy at the Intersection of Education Reform, Policy, and Culture Sarah Murray, Princess Allotey, 2021-11-29 This volume provides an in depth comparative examination of how primary mathematics education is influenced by national education reform policy local resources and culture in three different countries By drawing on first hand observations and interviews as well as analysis of policy documents and learning resources the book considers the viability of transferring best practices in primary mathematics education across global contexts Three diverse countries Ghana the US and Singapore are explored Similarities and differences are highlighted and the influence of national and regional initiatives related to pedagogical strategies teacher education and cultural expectations are considered to offer an insightful examination of how best practices might be shared across borders This book will benefit researchers academics and postgraduate scholars with an interest in international and comparative education mathematics and educational policy Those with a specialization in primary mathematics education including pedagogy and teacher preparation will also benefit from this book 
A Practical Guide to Transforming **Primary Mathematics** Mike Askew, 2015-07-30 A Practical Guide to Transforming Primary Mathematics offers inspiration and ideas for all training and practising teachers committed to making mathematics enjoyable inclusive engaging and

successful The companion to Mike Askew's bestselling book Transforming Primary Mathematics this practical guide focuses on showing you how to unlock the powerful potential of a small set of consistent principles and practices known as the teaching tripod to develop a coherent approach to teaching mathematics Organised around the major strands of the curriculum number calculations shape and space measures and data handling it offers an accessible introduction to the teaching tripod a careful choice of tasks supported by a range of tools that extend our natural abilities and held together by careful attention to classroom talk A range of classroom tasks each including key learning outcomes clear links to the framework links to relevant research and suggestions for making the tasks easier or harder are offered for every topic helping you plan units of work for meaningful learning A Practical Guide to Transforming Primary Mathematics offers all teachers a vision rationale and ideas for how teaching can support better learning of mathematics but also encourage learners to see themselves as being capable of learning mathematics and wanting to learn it Teaching Primary Mathematics Sylvia Turner, 2012-11-13 Teaching Primary Mathematics covers what student teachers really need to know and why including approaches to teaching and learning planning and assessment and using resources in maths teaching It also provides a brief historical overview of the teaching of mathematics and examines strategies to enhance learning and development as a confident mathematician in the primary classroom Informed by seminal and current research and recent developments in education policy the book also explores the role of mathematics within the primary curriculum the development of mathematics as a subject of study the knowledge that can be gained from considering international approaches to mathematics This is essential reading for all students on primary initial teacher education courses including undergraduate BEd BA with QTS postgraduate PGCE SCITT and School Direct and employment based routes into teaching Sylvia Turner is Senior Lecturer in the Faculty of Education at the University of Winchester Primary Mathematics Audit and Test Mike Fletcher, Claire Mooney, 2013-12-17 If you are a primary trainee you must demonstrate a knowledge of mathematics to be recommended for QTS This popular widely recommended text helps you audit your knowledge of mathematics and understand what learning you need to pass your course A rigorous test helps you identify your strengths and weaknesses and can be revisited at key stages in your course as a tool to monitor and evaluate progress The fourth edition has been updated in line with the new National Curriculum includes more information on expanding and developing your knowledge of mathematics and is linked to the newest Teachers Standards **Primary Mathematics** Penelope Baker, Rosemary Callingham, Tracey Muir, 2023-09-07 Primary Mathematics Integrating Theory with Practice is a comprehensive introduction to teaching mathematics in Australian primary schools Closely aligned with the Australian Curriculum it provides a thorough understanding of measurement geometry patterns and algebra data and statistics and chance and probability The fourth edition provides support for educators in key aspects of teaching planning assessment digital technologies diversity in the classroom and integrating mathematics content with other learning areas It also features

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Teaching Primary Mathematics George Booker, Denise Bond, Len Sparrow, Paul Swan, 2015-05-20 The fifth edition of Teaching Primary Mathematics has been significantly revised and updated for the current educational environment The organisation of the book has been redesigned to reflect feedback from readers and the approach taken by the Australian Curriculum Mathematics Teaching Primary Mathematics provides teachers and students with a sound framework for the successful teaching of mathematics to primary students It is suitable both as a core text for primary student teachers and as an indispensable reference for practicing primary teachers seeking to update their knowledge

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