

## Primary Mathematics For Trainee Teachers By Marcus Witt

The essential subject knowledge text for primary mathematics. Secure subject knowledge and understanding is the foundation of confident, creative and effective teaching. This comprehensive text includes interactive tasks, a self assessment section to allow trainees to better understand their level of knowledge and M level extension boxes to provide further challenge in all chapters. This 7th edition is updated in line with the new National Curriculum and includes updated research summaries reflecting the latest thinking. This highly recommended text helps trainee primary teachers develop and consolidate their knowledge of mathematics.

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, 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.

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, cuts 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.

Written by an experienced teacher and teacher educator with widespread experience of teaching mathematics in the UK and internationally, Understanding and Teaching Primary Mathematics combines pedagogy and subject knowledge to build confidence and equip you with all the skills and know-how you need to successfully teach mathematics to children of any age. This 4th edition has been fully updated to reflect the latest research developments and initiatives in the field, including a brand-new chapter on 'Mastery and mathematics' and 'The Singapore approach' which reflects the current international interest in these approaches to learning and teaching mathematics. Extra features also include helpful callouts to the book's revised and updated companion website, which offers a shared site with a range of resources relevant to both this book and its companion volume, Teaching for Mathematical Understanding. Stimulating, accessible and well-illustrated, with comprehensive coverage of subject knowledge and pedagogy, Understanding and Teaching Primary Mathematics is an essential purchase for trainee and practising teachers alike.

### Primary Mathematics Across the Curriculum

#### New Teacher Identity and Regulatory Government

#### Mathematical Knowledge for Primary Teachers

#### Essential Primary Mathematics

#### The Discursive Formation of Primary Mathematics Teacher Education

With chapter sequencing following the new Curriculum, this book supports you to make use of the opportunities presented in the National Curriculum for effective and engaging Primary English teaching. Covering all areas of the new National Curriculum for primary English and offering insight into effective teaching, it helps you connect what you need to teach, to how it can be taught. It opens up the opportunities in the new curriculum for creative and imaginative teaching and covers all areas of children's literacy from poetry and literature to SPAG. Throughout the text, case studies of teaching are used as a starting point for learning and guidance on practical teaching strategies is included in all chapters. A comprehensive guide to the teaching of primary English that will help you secure your subject knowledge and transform your teaching. Includes the full National Curriculum Programme of Study for English, key stages 1 and 2 as a useful reference for trainee teachers. Other books in this series include: Primary Science for Trainee Teachers and Primary Mathematics for Trainee Teachers

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 an 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 enhance learning highlights the importance of being able to use mathematics effectively in other aspects of the teacher's role. Interactive activities and case studies are used to practice and encourage the reader to rethink how mathematics is taught in primary schools. Also the Transforming Primary QTS series. This series reflects the new creative way schools are beginning 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.

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 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 explanation. Critical 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.

In this textbook, the foundations of mathematics are made explicit and the reader is guided through the background knowledge and understanding that are required for the subject offering a well-structured overview of the important issues to be considered when learning about mathematics on a Primary QTS course, and a coherent approach to the content to be found in the standards for QTS. National Curriculum at Key Stages 1 and 2 and the numeracy strategy. The authors aim to help teachers review and restructure the understanding of mathematics gained during their education, progressing from partial memories of a few process to an understanding of why the skills they were taught make sense and how they fit into a coherent mathematics curriculum, arguing that to teach mathematics effectively it is not enough to be able to do the mathematics, you need to understand why you do what you do. Aimed at all teachers of primary mathematics, this book is also likely to be valuable to secondary teachers, parents, administrators and others interested in the foundations of school mathematics. Written for trainee and practicing teachers, this book de-mystifies the primary mathematics UK curriculum and offers a valuable reference for effective mathematics teaching.

#### Purpose, Use and Exemplars

#### EBOOK: Connecting Primary Maths and Science: A Practical Approach

#### Children's Errors in Mathematics

#### Primary Mathematics Audit and Test

#### Reflective Primary Mathematics

This book explains 'big ideas' in mathematics in simple terms supported by classroom examples to show how they can be applied in primary schools to enable learning. Carefully linked to the National Curriculum, it covers all the major concepts so you can develop your own mathematical subject knowledge and to give you the confidence to deepen your understanding of the children you teach. This second edition includes: A new 'links with mastery' feature showing how to teach with mastery in mind - A new glossary of key terms - New big ideas and activities throughout Arranged by the content strands - Number and Algebra, Measurement and Geometry, Statistics and Probability - giving teachers independence and flexibility in constructing a week-by-week maths program. Practical and hands-on activities encourage students to develop their own strategies as confident learners. Graded activities provide effective scaffolding for students and allow teachers to cater for mixed ability classes. Discussion icons are indicated throughout the books to highlight areas where class or small group discussion can take place. Revision boxes contain information to help students recall past learning, or offer hints and further explanation of difficult concepts. Full-colour photos and illustrations link learning activities to every day contexts to help make maths meaningful. Activities are related to Cambridge Maths-in-a-Box, which enriches the program with contextual activities and saves teachers time with planning.

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.

This book stems from the authors' shared passion for primary mathematics teaching and offers an exploration of contemporary issues facing teachers. Drawing on research and case studies from practice, the book explores a wide range of concepts as starting points for professional reflection and personal development to improve teaching and learning in primary mathematics. Topics covered include: Using children's mathematical misconceptions to support teaching and learning The role of talk in developing mathematical understanding Evidence-based teaching and Learning Making mathematics real and purposeful beyond the classroom The role of games in teaching and learning mathematics ICT and mathematics The book illustrates the ways in which professional development that is rooted in practitioner inquiry and research enables teachers to advance their practice, resulting in improved outcomes for their pupils. Improving Primary Mathematics Teaching and Learning is appropriate for teachers undertaking professional development programmes (e.g. MASt, MA programmes), trainee teachers and staff on those programmes, both local authority and independent. Contributors: Mike Askew, Sue Bailey, Elizabeth Bentley, Victoria Grimmer, Alice Hansen, Lynne McClure, Jeff MacLellan, Suzan Nelson, Carol Rushworth-Little, Steve Sherer, Ian Thompson, Vivien Townsend, Maunfry Worthington. "In this book Mary McAteer brings together contributors with a wealth of experience in research and practice. The way in which practical and theoretical perspectives are brought to life with case studies and examples makes it highly readable and every chapter adds new insights into children's mathematics learning." Dr Julia Angeli, University of Cambridge (retired)

#### A Guide for Newly Qualified & Student Teachers

#### Tackling Anxiety in Primary Mathematics Teachers

#### Primary Mathematics: Teaching Theory and Practice

#### Mastery Mathematics for Primary Teachers

#### Mathematical Misconceptions

The UK National Curriculum is clear about the importance of reasoning and problem-solving in mathematics. Mastery and Depth in Primary Mathematics aims to support trainee and established teachers to embed mathematical thinking into their lessons. The authors focus on practical and actionable ways that primary teachers can develop their children's mathematical thinking, reasoning and problem-solving: ideas which are at the heart of the UK National Curriculum. Covering a range of areas in mathematical thinking such as reasoning, problem-solving and pattern-spotting, as well as systematic and investigative thinking, each chapter provides clear examples of how teachers can make small, manageable 'rich weeks' to their existing lessons to increase the opportunities for children to develop their mathematical thinking. Teachers will be able to dip into the book and find inspiration and ideas that they can use immediately and, importantly, develop a set of principles and skills which will enable them to take any mathematical activity and tweak it to develop their pupils' thinking skills. This practical guide will be invaluable to all trainee teachers and early-career teachers that wish to enhance their primary mathematics teaching.

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.

This book explores how mathematical mastery, influenced by East Asian teaching approaches, can be developed in a UK context 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. Key coverage includes: - Key terminology in mastery-style teaching - The challenges in implementing a mastery approach - The use of manipulative resources for deeper understanding - An analysis of mastery and related schemes of work currently available - Assessing mastery - How to apply mastery concepts in the early years

Updated with over 100 new questions! This Student Workbook allows you to practice the concepts introduced in Derek Haylock's Mathematics Explained for Primary Teachers. With over 800 questions endorsed by primary PGCE trainees, along with detailed solutions and explanatory notes, this new edition Student Workbook helps you gain the confidence you need to understand, apply and teach the primary maths curriculum. Checking Understanding questions are designed to help you check your own knowledge of terminology, understanding of key concepts and principles, and your mastery of important skills. Reasoning and Problem-solving questions encourage you to use and apply mathematical concepts in solving mathematical puzzles or problems in real life situations. Learning and Teaching solutions include responses to children's errors and misunderstandings, development of teaching ideas, evaluation of teaching approaches, and consideration of objectives to promote understanding.

#### Primary Science for Trainee Teachers

#### Reflecting on Practice with the Knowledge Quartet

#### A Handbook for Tutors and Mentors

#### Primary Mathematics for Trainee Teachers

#### Student Workbook Mathematics Explained for Primary Teachers

*How do children relate to numbers and mathematics? How can they be helped to understand and make sense of them? People are rarely ambivalent towards mathematics, having either a love or hate relationship with the subject, and our approach to it is influenced by a variety of factors. How we are taught mathematics as children plays a big role in our feelings towards it. Numbers play a large part in our lives, and it is therefore beneficial to inspire a positive attitude towards them at a young age. With contributors comprised of teachers, teacher educators, mathematicians and psychologists, Mathematical Misconceptions brings together information about pupils' work from four different countries, and looks at how children, from the ages of 3 - 11, think about numbers and use them. It explores the reasons for their successes, misunderstandings and misconceptions, while also broadening the reader's own mathematical knowledge. Chapters explore - the seemingly paradoxical number zero - the concept of equality - children's perceptions and misconceptions of adding, subtracting, multiplying and dividing - the learning process - the ways in which children acquire number concepts. This unique book will transform the way in which primary school teachers think about mathematics. Fascinating reading for anyone working with children of this age, it will be of particular interest to teachers, trainee teachers and teaching assistants. It will show them how to engage children in the mysteries and delights of numbers.*

*At last, a unique book that explores and exploits the links between primary mathematics and science so that you can promote learning in both of these important STEM subjects! Rich in engaging ideas and activities for the classroom this book helps you plan and teach well-structured lessons in a more integrated way. The book outlines key curriculum topics in both subjects and considers why it is important and beneficial to make connections between the two. As well as covering key subject knowledge (what you need to know) and teaching activities (what you need to do), the book explores learners' mathematical and scientific needs, and defines the characteristics of effective teaching and learning, bringing it all together with ideas which you can use straightaway in your classroom. Key features: "promotes an informed approach to integrating primary mathematics and science teaching "helps address the time constraints of primary teachers and offers a range of ideas for use in the classroom "provides a real-life context to mathematics and science activities to inspire student learning "helps you combine two closely related and sometimes tricky subject areas - why teach one subject when you can teach two at the same time?" Accessible, readable and engaging with a range of innovative teaching ideas, this is an invaluable book for all trainee and qualified primary teachers and other educational professionals with links to primary mathematics and science. A great 'go to' book for teachers and trainee teachers alike. Chapters are constructed with easy to read objectives and clear summaries. Many practical ideas, incorporating current research, as well as information on mathematicians and scientists, which is great for boosting children's aspirations and also helping with teachers' confidence on the subjects. A levels, easy to access book, whether it is to use for reference, to dip in and out of or just to use alongside planning materials." Maria McArdle, Senior Lecturer PGCE & Mathematics Lead (Primary), University of Bedfordshire, UK*

*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 Science teaching. Covering all of the areas of the new National Curriculum for primary science and offering insight into effective teaching, it helps you connect what you need to teach to how it can be taught. This comprehensive guide to teaching Primary Science will help you secure your subject knowledge, understand how children learn about science and know how to plan and teach effective and inspiring science lessons. Exploring opportunities in the new curriculum for creative and imaginative teaching, it shows you how to capitalize on opportunities to teach science in a way that sparks children's interest. Includes the full National Curriculum Programme of Study for Science, key stages 1 and 2 as a useful reference for trainee teachers. Other books in this series include: Primary Mathematics for Trainee Teachers and Primary English for Trainee Teachers*

*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 (BA, BA with QTS), postgraduate (PGCE, SCITT), and School Direct, and employment-based routes to teaching. Sylvia Turner is Senior Lecturer in the Faculty of Education at the University of Winchester.*

#### Understanding Mathematics for Young Children

#### A guide for student teachers

#### EBOOK: Improving Primary Mathematics Teaching and Learning

#### Big Ideas in Primary Mathematics

#### Understanding Primary Mathematics

*Problem Solving in Primary Mathematics is an essential text designed to support new and experienced teachers in guiding pupils through mathematical investigations and problem solving, offering a framework that children themselves can begin to adopt as they progress to greater metacognitive awareness. Underpinned by the latest international research and theory, it examines how individual pupils think and act differently and offers guidance on how to promote independence and autonomy in the classroom. It examines key topics such as: Preparing for mathematical learning Designing learning material Assessing and evaluating learning Identifying key points for intervention What to do when learning is stalled Critical numeracy for real-world problem solving Mental Model Theory and the Mental Model Model Different approaches to problem solving and investigating Aimed at new and experienced educators, particularly those with a maths specialism, and illustrated with investigations and activities, Problem Solving in Primary Mathematics demonstrates how frameworks can be used in key mathematical areas and assists students in progressing towards more meaningful problem solving.*

*This practical guide to children's common errors and misconceptions in mathematics is a popular planning tool for primary trainees. It supports a deeper understanding of the difficulties encountered in mathematical development. This third edition has been updated to link to the new National Curriculum. New for this edition is a chapter on addressing errors misconceptions which explores how errors can best be identified and countered. The text examines misconceptions individually and in each case provides a description of the error alongside an explanation of why the error happens. The text also considers the role of the teacher in understanding and addressing children's common mathematical misconceptions.*

*If you are teaching or learning to teach primary mathematics, this is the toolkit to support you! Not only does it cover the essential knowledge and understanding that you and your pupils need to know, it also offers 176 great ideas for teaching primary mathematics - adaptable for use within different areas of mathematics and for different ages and abilities. Tackling children's misconceptions in each topic area and differentiation through open-ended tasks and elements of choice, the book encourages you to think deeply about the teaching of the primary mathematics curriculum. The classroom activities, which are simple to resource and use, support you in meeting the Teachers' Standards securely and encourage children to: Think deeply about mathematics and to challenge themselves Develop mathematical independence Engage in mathematical talk Work collaboratively with others to further understanding Whether you are just getting started in your teaching career or more experienced you will find a wealth of innovative activities to support you in teaching primary mathematics in effective and creative ways. "This book is an absolute must for every primary teacher. The perfect blend of subject knowledge, common misconceptions, pupil activities and self-assessment questions will support all those who are feeling slightly less than confident about teaching a mathematical topic. It will also be invaluable to experienced teachers and subject leaders who wish to think more deeply about how to teach mathematics effectively." Sue Davis, Primary PGCE Course Leader and Lecturer in Mathematics Education, University of Leicester, UK "This book has the conversational style of an excellent mentor and/or tutor of primary mathematics. It offers advice and guidance on how to be an effective teacher of mathematics whilst still drawing the reader's attention to the importance of developing good subject knowledge, and how this can be addressed. Mathematical concepts are explained with reference to their theoretical underpinning and are then set in the context of real learning opportunities that illustrate good pedagogy. There is a real emphasis on teaching for learning, and this is most evident in the introductory chapter which provides a brief discussion of the big issues currently being debated in the field of primary mathematics. The consistent format of the subject chapters supports the reader's ability to plan and teach a wide range of appropriate activities based on rich mathematics. These are all neatly illustrated by children's drawings which bring the book to life. This is an all encompassing text for any student or teacher of mathematics and will feature on my highly recommended reading list." Paula Stone, Senior Lecturer Primary Education (Mathematics), Canterbury Christ Church University, UK "This book is ideal for student and practicing teachers alike. The user-friendly format such as the overview of contents at the beginning of each chapter and the highlighting of key misconceptions in each area, make it easy to locate relevant information. Each chapter evolves logically through subject knowledge and progression in learning for children. This book stands out from other texts I have used as there is an extremely helpful section at the end of each chapter which provides suggested classroom activities with associated learning objectives for each area of mathematics. As a final year student, I only wish this book had been available to me at the beginning of my course!" Shelley Rogers, Student Teacher, University of Chichester, UK "This book approaches the teaching of primary mathematics with a clear ethos, which is explained in the first chapter and then pervades all the suggestions and discussions which follow. The author deals with issues such as turning children's misconceptions and 'mistakes' into learning opportunities, helping the children to communicate their reasoning and differentiating lessons in ways that empower rather than categorise children. The author's experience of having taught and observed hundreds of mathematics lessons is distilled into the essence of primary mathematics teaching." Dr Marcus Witt, Senior Lecturer in Primary and Early Years Mathematics Education, University of the West of England, UK "The theory sections of the book are really detailed which helps to provide a secure knowledge base for teaching primary mathematics. I especially like the way that the book is laid out; it is really easy to navigate. I love how the common misconceptions are outlined and explained in boxes separate to the body of the text but are also re-listed at the end of a chapter so that you could revise the potential issues which may arise before you start to teach a particular topic. The activities are well organised and adaptable but it is useful to see which age range each activity is suggested for at a glance, alongside the learning objective." Natalie Ridler, NQT*

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