



Mathematics in the Primary School

A Sense of Progression

Second Edition

Edited by
Christine Hopmann, Sue Gifford
and Sandy Poppernell



Mathematics In The Primary School A Sense Of Progrebion

Theresa Bourke, Reece Mills, Rod Lane



Mathematics In The Primary School A Sense Of Progrebion:

Mathematics in the Primary School Sandy Pepperell, Christine Hopkins, Sue Gifford, Peter Tallant, 2014-03-18 Now in its third edition *Mathematics in the Primary School* has been updated to reflect recent mathematics curriculum documentation and revised standards for QTS Key areas include The role of talk in learning maths Teacher questioning Development of children s reasoning Creative engagement with maths Assessment for learning and self assessment Suggested resources for teachers including ICT Providing a coherent set of principles for teaching primary mathematics across the main topics in the curriculum the authors explore children s understanding of key areas of mathematics at reception infant and junior levels Important principles and teaching approaches are identified including the use of calculators and computers and there is an emphasis on mental mathematics and problem solving supporting key issues raised by the Williams review 2008 Case studies are used throughout to illustrate how different teaching approaches are put into practice and how children respond to them and there is advice on planning organisation and assessment of mathematical learning in the classroom Emphasising the importance of teachers own mathematical knowledge and offering clear guidance and practical advice this book is essential reading for students NQTs and practising teachers with a focus on primary mathematics

Mathematics in the Primary School Christine Hopkins, Susan Gifford, Sandy Pepperell, 1996 **Mathematics in the Primary School** Sandy Pepperell, 2009 First published in 1996 **Teaching and Learning with ICT in the Primary School** Marilyn Leask, John Meadows, 2000 *Teaching and Learning with ICT in the Primary School* introduces teachers to the range of ways in which ICT can be used to support and extend the teaching and learning opportunities in their classrooms Chapters cover areas such as literacy numeracy science and their relationship with ICT managing curriculum projects using ICT creating and using multimedia applications Ideas and activities for teachers to try are based on tried and tested methods from innovative schools around the UK and abroad Practising teachers and students will find this an invaluable guide on how to work together to extend their skills and knowledge in the area of ICT

Meeting the Standards in Primary Mathematics Tony Brown, 2003-09-02 Written in response to the new ITT NC requirements for student teachers Comprehensive guide covering all aspects of primary teacher training relating to mathematics and the Standards required to reach qualified teacher status A strong and adoptable series for all ITT courses Informs teachers of exactly what they need to know to teach the subject and provides further information in continuing professional development issues There is increasing pressure on student teachers to develop their subject classroom competence in a short space of time this should help relieve the burden Part of the successful Meeting the Standards Series which students on BEd and PGCE courses and teachers will already be familiar with Includes a chapter dealing with the transition from teacher training to being a Newly Qualified Teacher

Dyslexia, Dyspraxia and Mathematics Dorian Yeo, 2008-04-30 Written by a teacher with many years experience of teaching mathematics to primary school dyslexic and dyspraxic children with a wide range of abilities this book is designed

to be a practical teaching guide It offers detailed guidance and specific teaching suggestions to all specialist teachers support teachers classroom teachers and parents who either directly teach mathematics to dyslexic and dyspraxic children or who support the mathematics teaching programmes of dyslexic or dyspraxic children Although the book has grown out of teaching experience it is also informed by widely acknowledged contemporary and international research which explores the cognitive aspects of learning mathematics and tries to understand why it is that some children fail to learn mathematics Many of the teaching principles described in the text have specific and quite far reaching implications The theoretical arguments should therefore also be of interest to special needs co ordinators heads of maths departments head teachers or other professionals who are responsible for designing or modifying the maths learning programmes of children with special learning and maths difficulties In more general terms the book hopes to contribute to the broad discussion of the cognitive features and educational needs of dyslexic and dyspraxic children

Mathematics Through Play in the Early Years Kate Tucker, 2010-03-18 Teaching mathematics to young children in creative ways is made easy with this second edition of a wonderful book which offers the reader clear advice and lots of exciting ideas to use in any early years setting By showing how to introduce mathematical concepts through play based activities this book is in tune with current thinking about best practice in teaching and with the requirements of the Early Years Foundation Stage and current Primary National Strategy New material includes an additional chapter on creative recording a whole new chapter on ways to involve parents discussion of policy throughout the UK more on using ICT case studies covering the whole birth to eight age range Essential reading for any practitioner who wants to develop their mathematics teaching this book is equally important for all trainee teachers and early years students Kate Tucker is an early years teacher trainer and writer based in Exeter she has over 20 years of experience and has written widely on early years mathematics and Foundation Stage practice

Mathematics Performance in Primary Schools Great Britain: Parliament: House of Commons: Committee of Public Accounts, 2009 In 2007 08 the National Strategy to improve performance in primary mathematics cost some 104 million to implement The Strategy aims to raise performance through extensive teaching and learning resources supported by professional development programmes for teachers In 2006 07 some 2 3 billion was spent on teaching mathematics in primary schools out of a total expenditure of 10 billion on primary teaching and teaching support staff Yet improvements in the mathematics results of primary school pupils have levelled off since 2000 In 2008 79 per cent of pupils met the Government s expected standard at Key Stage 2 age 11 This means that over one in five children are starting secondary school without a secure foundation in mathematics There are persistent gaps in the mathematics performance of primary school pupils from different backgrounds and with different characteristics In contrast to other subjects boys are making more progress than girls The biggest attainment gap 18 percentage points is related to deprivation Performance varies across England and between local authorities with the percentage of pupils achieving the expected standard at KS2 ranging from 70 to 87 per cent The Primary

National Strategy has contributed to improvements in primary mathematics teaching and learning but weaknesses persist in vital areas such as the use and application of mathematics to real life situations and the assessment of pupils progress The lack of depth in subject knowledge of many primary school teachers and the lack of take up of continuing professional development in mathematics are major concerns which the Department has only recently begun to address through a ten year programme to train 13 000 specialist teachers

Understanding Mathematics in the Lower Primary Years Derek Haylock, Anne D Cockburn, 1997-04-28 This is a substantially revised and expanded edition of the authors earlier book *Understanding Early Years Mathematics* It is written for teachers and student teachers working with children 4 8 It aims to provide them with a clearer understanding of the mathematical material they deal with in the classroom This revised edition includes new chapters on number patterns and calculations data handling and the characteristic ways of thinking mathematically that are at the heart of using and applying mathematics Each chapter includes a section of activities for use with children annotated suggestions for further reading and a summary of key ideas

Assessment in Geographical Education: An International Perspective Theresa Bourke, Reece Mills, Rod Lane, 2022-02-27 In recent years there has been increased attention paid to the importance of assessment in Geographical Education the chosen subject for this book Assessment is an important tool for collecting information about student learning and for providing timely data to inform key stakeholders including students teachers parents and policymakers To be effective assessment needs to be valid reliable and fair Validity is about ensuring that we assess what we claim we are assessing Reliability is about measuring performance and understanding in a consistent way Without validity and reliability assessment is unlikely to provide equitable opportunities for students to demonstrate what they know and can do As geography educators it is therefore important that we identify the core concepts and skills in geography that we want students to master We need a clear understanding of what the progression of learning looks like for each concept and skill so we can develop fit for purpose assessments that track and improve student learning While there is a substantial literature on evidence based assessment in secondary school contexts research exploring best practice assessment in geography is rare This is a concern given the distinctive nature of geography and the important role of assessment in the learning process This scholarly collection seeks to address this issue by connecting research in educational assessment with the domain of geography The chapters are written by leading researchers in Geographical Education from across the globe These chapters provide examples of innovation through the collective voices of geography teacher educator scholars from across Australia USA South Korea Germany Switzerland and Singapore What unifies the work in this book is that each chapter focuses on a key feature of the discipline of geography providing scholarly examples of evidence based practices for assessing student s knowledge and skills

Enriching Mathematics in the Primary Curriculum Sue Pope, Pablo Mayorga, 2019-03-11 How do I enrich children s learning of primary mathematics to bring the subject to life This book inspires and supports you the new and beginning teacher to use talk rich

and open tasks that bring mathematics to life in your classroom
 Tried and loved practical tasks that engage and motivate
 Supports you to create confident and resilient mathematicians in your classroom
 Explores ways to engage children in mathematics across the primary curriculum
 Focuses on understanding key mathematical concepts and the connections between them

PISA 2022 Results (Volume II) Learning During - and From - Disruption OECD, 2023-12-05 This is one of five volumes that present the results of the eighth round of assessment PISA 2022 which was conducted during the COVID 19 global pandemic Volume II Learning During and From Disruption focuses on resilience in education and analyses its relevance for education systems schools and students

Progress Monitoring and Data-Based Decision-Making in Inclusive Schools Markus Gebhardt, Stefan Blumenthal, David Scheer, Yvonne Blumenthal, Sarah Powell, Erica Lembke, 2023-05-18

Pupils in Transition John Gardner, Professor Gill Nicholls, 2013-03-07 Focusing on the move from primary to secondary school this book aims to help teachers and school managers to recognize and deal with the often traumatic effects that this transition has on young people's lives The book explores the links between primary and secondary curricula offers specific advice on how to meet the needs of children in transition provides materials for investigating transition which will enable schools to identify the strengths and weaknesses in their approach

[Mathematics Explained for Primary Teachers](#) Derek Haylock, Ralph Manning, 2014-06-19 Get access to an interactive eBook when you buy the paperback Print paperback version only ISBN 9781446285879 A Unique Blend of Digital and Print Learning Resources 5 Star student reviews A must have for teachers to be especially those who are a bit shaky on their maths knowledge Not many maths books keep me fixated but this is one that is definitely worth the money It is a book I will be using even when in the classroom Mathematics Explained for Primary Teachers develops your understanding of mathematical concepts and processes and how children learn them so you can confidently teach mathematics to primary children Tried and tested the fifth edition of Derek Haylock's much loved textbook matches the 2014 curriculum requirements for England Every chapter integrates children's learning classroom practice and teacher's own requirements for subject knowledge making this the ideal text to guide you through your studies and beyond More than just a book The new edition is supported by FREE access to an interactive eBook and a companion website allowing you to use a wealth of teaching and learning resources You can use the eBook to study where and when you want and read annotate and search the book on a tablet laptop or PC You can also visit study.sagepub.com/haylock5e to access Videos by the author introduce core themes of each section and explain key mathematical processes Links to the National Curriculum specify the statutory requirements for primary schools in England that relate to the mathematical content of each chapter Learning and Teaching points highlight important issues you may face in the classroom and provide practical guidance for teaching Self assessment questions help check your understanding and provide immediate feedback to see how well you have done Select SAGE journal articles to support literature reviews and wider reading Lesson Plan Activities by Ralph Manning support content focused chapters and contain creative

mathematics tasks across the primary age range A Student Workbook is also available to accompany this book including over 700 practice problems to help you understand apply and teach primary mathematics Derek Haylock is an education consultant and writer with a background in mathematics teaching teacher education and 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

Educating Tomorrow's Engineers Great Britain: Parliament: House of Commons: Science and Technology Committee, 2013-02-08 In the UK we teach young people to become computer users and consumers rather than programmers and software engineers This is creating a chronic skills gap in ICT We need around 82 000 engineers and technicians just to deal with retirements up to 2016 and 830 000 SET professionals by 2020 On the plus side the Government's proposal to include computer science as a fourth science option to count towards the EBac is welcomed The Committee also welcomes the EBac's focus on attainment of mathematics and science GCSEs but is concerned that subjects such as Design and Technology D T might be marginalised A Technical Baccalaureate TechBac is being designed but if it is to be a success schools should be incentivised to focus on the TechBac by making it equivalent to the EBac Reforms to vocational education following the Wolf Review meant that Level 2 of the Engineering Diploma a qualification highly regarded would count as equivalent to one GCSE despite requiring curriculum time and effort equivalent to several GCSEs The Engineering Diploma however is currently being redesigned as four separate qualifications The Committee also expressed concerns over the Department for Education's DfE lack of clarity on its research budget and use of evidence in decision making The DfE needs to place greater focus on gathering evidence before changes to qualifications are made and must leave sufficient time for evidence to be gathered on the effectiveness of policies before introducing further change The possibility of gathering evidence from randomised controlled trials RCTs should be seriously considered

[Bringing Math Students Into the Formative Assessment Equation](#) Susan Janssen Creighton, Cheryl Rose Tobey, Eric Karnowski, Emily R. Fagan, 2015-01-21 Make formative assessment work for you and your math students Finally formative assessment that adds up Bringing Math Students Into the Formative Assessment Equation is the ultimate resource for helping teachers implement formative assessment in the middle school mathematics classroom And it's much more than that With this research based teacher tested guide you won't just learn effective teaching strategies you'll turn your students into self regulated learners They'll monitor and assess their own progress and communicate to you about it Features include A clear and manageable six aspect instructional model Detailed strategies for helping students own their successes Real life examples from middle school mathematics teachers Useful resources and a companion website to help you implement formative assessment in your classroom Formative assessment isn't just for teachers anymore With the help of this essential resource you'll work together with your students toward a common goal of math success This book is outstanding I would recommend it to any math

educator The depth of research integrated into practice is extensive and as a result it is the most practical book I have come across related to formative assessment and mathematics The self regulation aspects as well as the ownership and involvement emphasized in the book went beyond the traditional cognitive strategies endorsed in most books Marc Simmons Principal Ilwaco Middle School Ocean Beach School District Long Beach WA The ideas in this book are brought to life with examples of teachers and students in the classroom The teacher voices comments and quotes lend credibility and are a big component of the book s strengths as well as the visuals and graphics Rita Tellez Math Coordinator Ysleta Independent School District El Paso TX

The First Sourcebook on Asian Research in Mathematics Education - 2 Volumes

Bharath Sriraman, Jinfa Cai, Kyeonghwa Lee, Lianghuo Fan, Yoshinori Shimizu, Chap Sam Lim, K. Subramaniam, 2015-08-01 Mathematics and Science education have both grown in fertile directions in different geographic regions Yet the mainstream discourse in international handbooks does not lend voice to developments in cognition curriculum teacher development assessment policy and implementation of mathematics and science in many countries Paradoxically in spite of advances in information technology and the flat earth syndrome old distinctions and biases between different groups of researcher s persist In addition limited accessibility to conferences and journals also contribute to this problem The International Sourcebooks in Mathematics and Science Education focus on under represented regions of the world and provides a platform for researchers to showcase their research and development in areas within mathematics and science education The First Sourcebook on Asian Research in Mathematics Education China Korea Singapore Japan Malaysia and India provides the first synthesized treatment of mathematics education that has both developed and is now prominently emerging in the Asian and South Asian world The book is organized in sections coordinated by leaders in mathematics education in these countries and editorial teams for each country affiliated with them The purpose of unique sourcebook is to both consolidate and survey the established body of research in these countries with findings that have influenced ongoing research agendas and informed practices in Europe North America and other countries in addition to serving as a platform to showcase existing research that has shaped teacher education curricula and policy in these Asian countries The book will serve as a standard reference for mathematics education researchers policy makers practitioners and students both in and outside Asia and complement the Nordic and NCTM perspectives

Primary Mathematics: Teaching Theory and Practice

Claire Mooney, Mary Briggs, Alice Hansen, Judith McCullough, Mike Fletcher, 2021-02-10 An extensive knowledge of the primary Mathematics curriculum is not enough for you as a trainee teacher you need to know how to teach Mathematics in the primary classroom This is the essential teaching theory and practice text for primary Mathematics that takes a focused look at the practical aspects of teaching It covers the important skills of classroom management planning monitoring and assessment and relates these specifically to primary Maths Practical guidance features and resources help you translate your learning to the classroom and understand the wider context of teaching Online practical lesson ideas for the classroom The Primary National

Curriculum for Mathematics in Key Stages one and two Tips for planning primary Maths Useful weblinks for primary Mathematics teaching The ninth edition of this popular book includes a new chapter on Mathematics in the primary classroom exploring primary mathematics teaching today It is also updated to include the new Ready to progress criteria

Proceedings of the 3rd Progress in Social Science, Humanities and Education Research Symposium (PSSHRS 2021) Ifdil Ifdil, 2023-02-10 This is an open access book The 3rd Progress in Social Science Humanities and Education Research Symposium PSSHRS 2021 was conducted on 3 November 2021 at the Universitas Negeri Padang West Sumatra Indonesia The aim of the Symposium is to bring together scholars students researchers and administrators from different countries and to discuss theoretical and practical issues in the fields of Science and Technology Your prospective valuable contributions on this field will be evaluated by the Scientific Committee and the ones approved to be presented will also be published in the Proceedings and selected will be published in Journal

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