



REVISED EDITION

OPEN-ENDED MATHS ACTIVITIES

USING 'GOOD' QUESTIONS TO ENHANCE
LEARNING IN MATHEMATICS

PETER SULLIVAN
PAT LILBURN



OXFORD

Open Ended Maths Activities Using Good Questions To Enhance Learning

Robyn Jorgensen



Open Ended Maths Activities Using Good Questions To Enhance Learning:

Open-Ended Maths Activities Peter Sullivan, Pat Lilburn, 1997 Teachers recognise the importance of asking questions which promote higher level thinking and a variety of thinking strategies Open ended Maths Activities discusses a type of open ended problem solving question called a good question Because these questions enhance learning teaching and assessment they are a useful addition to a teacher's strategies Part One sets out the features of good questions gives practical advice on how to create your own good questions and shows you how to use them in the classroom Part Two contains a selection of good questions They are clearly set out in three sections for each mathematical subject upper middle and junior

Open Ended Maths Activities Revised Edition Peter Sullivan, Pat Lilburn, 2017-07-14 Open Ended Maths Activities discusses the features of good mathematical questions It provides practical advice on how teachers can create their own open ended and problem solving questions and use them effectively in the classroom

Good Questions for Math Teaching Peter Sullivan, Pat Lilburn, 2002 Open ended questions coined 12 good questions 12 by the authors can prompt children to think creatively and critically This useful book helps teachers define 12 good questions 12 offers teachers tips on how to create their own good questions and presents a wide variety of sample questions that span 16 mathematical topics including number measurement geometry probability and data

Teaching with Tasks for Effective Mathematics Learning Peter Sullivan, Doug Clarke, Barbara Clarke, 2012-09-12 This book is about how teachers can use classroom mathematics tasks to support student learning and presents data on the ways in which teachers used those tasks in a particular research project It is the product of research findings focusing on teacher practice teacher learning and knowledge and student learning It demonstrates how teachers can use mathematics tasks to promote effective student learning

Helping Children Learn Mathematics Robert Reys, Mary Lindquist, Diana V. Lambdin, Nancy L. Smith, Anna Rogers, Audrey Cooke, Sue Bennett, Bronwyn Ewing, John West, 2020-01-21 The third edition of Reys Helping Children Learn Mathematics is a practical resource for undergraduate students of primary school teaching Rich in ideas tools and stimulation for lessons during teaching rounds or in the classroom this edition continues to provide a clear understanding of how to navigate the Australian Curriculum with detailed coverage on how to effectively use Information and Communications Technology ICT in the classroom This is a full colour printed textbook with an interactive ebook code included Great self study features include auto graded in situ knowledge check questions video of teachers demonstrating how different maths topics can be taught in the classroom and animated branched chain scenarios are in the e text

Mathematical Problem Solving Berinderjeet Kaur, Ban Har Yeap, Manu Kapur, 2009 This book is the first in the series of the yearbooks of the Association of Mathematics Educators in Singapore It is highly unique as it addresses a focused theme of mathematics education The chapters of the book illustrate the immense diversity within the theme and presents research that translates into classroom pedagogies The thirteen chapters of the book illustrate how mathematical problems may be crafted and infused in classroom teaching Several novel

pedagogies such as learning mathematics through productive failure problem posing and generative activities are presented in the book The chapters are comprehensive and laden with evidence based examples for both mathematics educators and classroom teachers of mathematics The book is an invaluable contribution towards the already established field of research of mathematical problem solving It is also a must read for graduate research students and mathematics educators

Helping Children Learn Mathematics, 5th Australian Edition Robert Reys, Mary Lindquist, Diana V. Lambdin, Nancy L. Smith, Anna Rogers, Leicha Bragg, Audrey Cooke, Melissa Fanshawe, Mark Gronow, 2015-10-10 **Developing 21st Century Competencies In The Mathematics Classroom: Yearbook 2016, Association Of Mathematics Educators** Pee Choon Toh, Berinderjeet Kaur, 2016-05-20 The aim of this book is to contribute towards literature in the field of mathematics education specifically the development of 21st century competencies amongst learners of mathematics The book comprising fourteen chapters written by renowned researchers in mathematics education provides readers with approaches and applicable classroom strategies to foster skills and dispositions that will enable learners to thrive in the fast changing and complex world that we live in today The chapters in the book can be classified into three broad themes The first is an examination of what is meant by 21st century competencies and how they can be developed within the context of the mathematics curriculum The second is an in depth discussion of evidence based practices aimed at fostering specific competencies like metacognition and reflective thinking critical thinking and communication skills The last and third theme is about teaching approaches that are likely to feature increasingly in the 21st century classroom for example flipped learning or the use of comics and storytelling **Shifts in the Field of Mathematics Education** Peter Gates, Robyn Jorgensen (Zevenbergen), 2014-11-02 Professor Stephen Lerman has been a leader in the field of mathematics education for thirty years His work is extensive making many significant contributions to a number of key areas of research Stephen retired from South Bank University in 2012 where he had worked for over 20 years though he continues to work at Loughborough University In this book several of his long standing colleagues and collaborators reflect on his contribution to mathematics education and in so doing illustrate how some of Steve's ideas and interventions have resulted in significant shifts in the domain *Assessment in the Mathematics Classroom* Berinderjeet Kaur, Khoon Yoong Wong, 2011 Ch 1 Introduction Assessment matters Wong Khoon Yoong Berinderjeet Kaur ch 2 Using a multi dimensional approach to understanding to assess students mathematical knowledge Denisse R Thompson Berinderjeet Kaur ch 3 Assessing problem solving in the mathematics curriculum A new approach Toh Tin Lam und weitere ch 4 Assessing conceptual understanding in mathematics with concept mapping Jin Haiyue Wong Khoon Yoong ch 5 Using journal writing to empower learning Berinderjeet Kaur Chan Chun Ming Eric ch 6 Implementing alternative assessment in the lower primary mathematics classroom Yeo Kai Kow Joseph ch 7 Open ended tasks and assessment The nettle or the rose David J Clarke ch 8 Using ICT to improve assessment Marja van den Heuvel Panhuizen Angeliki Kolovou Marjolijn Peltenburg ch 9 The assessment for of and

as learning in mathematics The application of SLOA Magdalena Mo Ching Mok ch 10 Building bridges between large scale external assessment and mathematics classrooms A Japanese perspective Yoshinori Shimizu ch 11 Errors in mathematics assessment items written by pre service teachers Jaguthsing Dindyal ch 12 Affective assessment in the mathematics classroom A quick start Tay Eng Guan Quek Khiok Seng Toh Tin Lam ch 13 Implementing self assessment to develop reflective teaching and learning in mathematics Lianghuo Fan

Task Design In Mathematics Education Anne Watson, Minoru Ohtani, 2015-10-26 THIS BOOK IS AVAILABLE AS OPEN ACCESS BOOK ON SPRINGERLINK This open access book is the product of ICMI Study 22 Task Design in Mathematics Education The study offers a state of the art summary of relevant research and goes beyond that to develop new insights and new areas of knowledge and study about task design The authors represent a wide range of countries and cultures and are leading researchers teachers and designers In particular the authors develop explicit understandings of the opportunities and difficulties involved in designing and implementing tasks and of the interfaces between the teaching researching and designing roles recognising that these might be undertaken by the same person or by completely separate teams Tasks generate the activity through which learners meet mathematical concepts ideas strategies and learn to use and develop mathematical thinking and modes of enquiry Teaching includes the selection modification design sequencing installation observation and evaluation of tasks The book illustrates how task design is core to effective teaching whether the task is a complex extended investigation or a small part of a lesson whether it is part of a curriculum system such as a textbook or promotes free standing activity whether the task comes from published source or is devised by the teacher or the student

Diversity in Mathematics Education Alan Bishop, Hazel Tan, Tasos N Barkatsas, 2014-09-20 This book presents a research focus on diversity and inclusivity in mathematics education The challenge of diversity largely in terms of student profiles or contextual features is endemic in mathematics education and is often argued to require differentiation as a response Typically different curricula text materials task structures or pedagogies are favoured responses but huge differences in achievement still result If we in mathematics education seek to challenge that status quo more research must be focussed not just on diversity but also on the inclusivity of practices in mathematics education The book is written by a group of experienced collaborating researchers who share this focus It is written for researchers research students teachers and in service professionals who recognise both the challenges but also the opportunities of creating and evaluating new inclusive approaches to curriculum and pedagogy ones that take for granted the positive values of diversity Several chapters report new research in this direction The authors are part of or have visited with the mathematics education staff of the Faculty of Education at Monash University in Melbourne Australia The chapters all focus on the ideas of development in both research and practice recognising that the current need is for new inclusive approaches The studies presented are set in different contexts including Australia China the United States and Singapore

Teachers Engaged in Research Joanna O. Masingila, 2006-03-01 Through the chapters in this volume we learn about the

research foci and or questions that these classroom teachers are interested in examining the mathematics content through which they engaged their students in these explorations the data sources they used to make sense of their focus and questions and their roles in the research **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

Assessment In The Mathematics Classroom: Yearbook 2011, Association Of Mathematics Educators Berinderjeet Kaur,Khoon Yoong Wong,2011-05-16 The third in the series of yearbooks by the Association of Mathematics Educators in Singapore Assessment in the Mathematics Classroom is unique as it addresses a focused theme on mathematics education The objective is to encourage teachers and researchers to include assessment of non cognitive attributes and to use techniques in addition to paper and pencil tests that focus on typical problems Several renowned international researchers in the field have published their work in the book The thirteen chapters of the book illustrate evidence based practices that school teachers and researchers can experiment in their lessons to bring about meaningful learning outcomes A recurring theme in most chapters is the widely circulated notions of formative assessment and assessment for learning The book makes a significant contribution towards assessment in mathematics It is a good resource for research students and a must read mathematics educators Teaching Mathematics in Primary Schools Robyn Jorgensen,2020-08-12 This is an outstanding book it should be high on the list of any primary school teacher s set of references and a required text for pre service teachers Australian Primary Mathematics Classroom In our technology rich world numeracy is just as important as the smartphone in your pocket Students need to develop mathematical ways of seeing the world and strong problem solving skills and those foundations are taught in the primary school classroom Teaching Mathematics in Primary Schools covers the mathematical content taught in primary and middle years always emphasising how students can connect what they learn in mathematics with other curriculum areas and with the world beyond the classroom The authors draw on the latest international research to show how teachers can develop a rich repertoire of classroom teaching techniques and effective planning assessment and reporting methods They outline approaches to creating supportive learning environments for all

students and to building their knowledge and confidence in using mathematics This third edition has been updated throughout and includes a new chapter on numeracy Evidence based uses of digital technologies to support learning and teaching are included in every chapter With practical strategies that can be implemented in the classroom this book is an invaluable resource for pre service and early career primary and middle years mathematics teachers **Building the Foundation: Whole Numbers in the Primary Grades** Maria G. Bartolini Bussi,Xu Hua Sun,2018-03-29 This twenty third ICMI Study addresses for the first time mathematics teaching and learning in the primary school and pre school setting while also taking international perspectives socio cultural diversity and institutional constraints into account One of the main challenges of designing the first ICMI primary school study of this kind is the complex nature of mathematics at the early level Accordingly a focus area that is central to the discussion was chosen together with a number of related questions The broad area of Whole Number Arithmetic WNA including operations and relations and arithmetic word problems forms the core content of all primary mathematics curricula The study of this core content area is often regarded as foundational for later mathematics learning However the principles and main goals of instruction on the foundational concepts and skills in WNA are far from universally agreed upon and practice varies substantially from country to country As such this study presents a meta level analysis and synthesis of what is currently known about WNA providing a useful base from which to gauge gaps and shortcomings as well as an opportunity to learn from the practices of different countries and contexts **Research in Mathematics Education in Australasia 2008-2011** Bob Perry,Tom Lowrie,Tracy Logan,Amy MacDonald,Jane Greenlees,2012-09-11 This is the eighth edition of the four yearly review of mathematics education research in Australasia Commissioned by the Mathematics Education Research Group of Australasia MERGA this review critiques the most current Australasian research in mathematics education in the four years from 2008 2011 The main objective of this review is to celebrate and recognise significant findings highlight relationships between research identify themes and forecast further research directions This theme based review has produced a comprehensive analysis of Australasian research in a politically challenging time producing a manuscript with implications for a wider international audience As the 2009 Felix Klein medal winner Gilah Leder states A substantial body of research is captured in the chapters of this review It encompasses the labours of a community of active researchers with varied interests and diverse theoretical perspectives Some of the issues explored in the period covered by this volume clearly resonate with questions and concerns particularly pertinent to the changing educational environment others are more aptly described as continuing or renewed explorations of areas of long standing concern **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 Penelope Serow, Rosemary Callingham, Tracey Muir, 2016-06-20 Now in its second edition Primary Mathematics continues to provide a comprehensive introduction to teaching and learning mathematics in today s classrooms With links to both the Australian and New Zealand curricula this book covers the core learning areas of measurement space and geometry early number concepts data and statistics chance and probability and patterns and algebra Primary Mathematics encourages the integration of technology into a pedagogically sound learning sequence for primary mathematics and provides teachers with detailed activities and examples to cater for the mathematical needs of all learners The book comes with free twelve month access to Cambridge HOTmaths a popular award winning online tool with engaging multimedia to help students and teachers learn and teach mathematical concepts

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Table of Contents Open Ended Maths Activities Using Good Questions To Enhance Learning

1. Understanding the eBook Open Ended Maths Activities Using Good Questions To Enhance Learning
 - The Rise of Digital Reading Open Ended Maths Activities Using Good Questions To Enhance Learning
 - Advantages of eBooks Over Traditional Books
2. Identifying Open Ended Maths Activities Using Good Questions To Enhance Learning
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Open Ended Maths Activities Using Good Questions To Enhance Learning
 - User-Friendly Interface
4. Exploring eBook Recommendations from Open Ended Maths Activities Using Good Questions To Enhance Learning
 - Personalized Recommendations
 - Open Ended Maths Activities Using Good Questions To Enhance Learning User Reviews and Ratings
 - Open Ended Maths Activities Using Good Questions To Enhance Learning and Bestseller Lists
5. Accessing Open Ended Maths Activities Using Good Questions To Enhance Learning Free and Paid eBooks

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- Open Ended Maths Activities Using Good Questions To Enhance Learning Public Domain eBooks
- Open Ended Maths Activities Using Good Questions To Enhance Learning eBook Subscription Services
- Open Ended Maths Activities Using Good Questions To Enhance Learning Budget-Friendly Options
- 6. Navigating Open Ended Maths Activities Using Good Questions To Enhance Learning eBook Formats
 - ePub, PDF, MOBI, and More
 - Open Ended Maths Activities Using Good Questions To Enhance Learning Compatibility with Devices
 - Open Ended Maths Activities Using Good Questions To Enhance Learning Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Open Ended Maths Activities Using Good Questions To Enhance Learning
 - Highlighting and Note-Taking Open Ended Maths Activities Using Good Questions To Enhance Learning
 - Interactive Elements Open Ended Maths Activities Using Good Questions To Enhance Learning
- 8. Staying Engaged with Open Ended Maths Activities Using Good Questions To Enhance Learning
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Open Ended Maths Activities Using Good Questions To Enhance Learning
- 9. Balancing eBooks and Physical Books Open Ended Maths Activities Using Good Questions To Enhance Learning
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Open Ended Maths Activities Using Good Questions To Enhance Learning
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Open Ended Maths Activities Using Good Questions To Enhance Learning
 - Setting Reading Goals Open Ended Maths Activities Using Good Questions To Enhance Learning
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Open Ended Maths Activities Using Good Questions To Enhance Learning
 - Fact-Checking eBook Content of Open Ended Maths Activities Using Good Questions To Enhance Learning
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development

- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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