



Maths Investigations

A Collection of Open-ended Tasks

How long would it take to write every number to a million?

Why is my birthday on a different day each year?

How many nappies will a baby use before he or she is toilet-trained?

Can a person really jump from the top of one building to the next like they do on TV?

Is it true that the length of your feet is the same as the distance between your elbow and your wrist?

How much water do I use having a shower?

Paul Swan

Maths Investigations A Collection Of Openended Tasks

Dianne Carr



Maths Investigations A Collection Of Openended Tasks:

Maths Investigations Paul Swan,2002-11-01 **Motivational maths** Paul Swan,2002 This book presents students and teachers with high interest activities that will arouse curiosity and extend thinking Students will enjoy performing mathematical tricks on their peers and teachers can intrigue their class by beginning lessons with a dazzling demonstration The activities included can be used in a variety of ways such as independent activities collaborative learning in pairs or small groups and teacher demonstrations Older students can be encouraged to discuss and develop the algebraic ideas and concepts that are the magic behind the tricks while younger students can simply be captivated by the magic of mathematics

Maths Investigations, Ages 10-14 Paul Swan,2001 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 **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,2025-10-10 **Math & Science Group (2022-23 CTET Junior Level)** YCT Expert Team , 2022 23 CTET Junior Level Math Science Group Solved Papers **Year 5** Stefanie Sullivan,2003 Talking Maths provides motivating and differentiated group activities to get children working together to solve problems Pupils will develop their reasoning skills and their maths vocabulary as they talk about maths strategies

The Math Problems Notebook Valentin Boju,Louis Funar,2007-08-15 This volume offers a collection of non trivial unconventional problems that require deep insight and imagination to solve They cover many topics including number theory algebra combinatorics geometry and analysis The problems start as simple exercises and become more difficult as the reader progresses through the book to become challenging enough even for the experienced problem solver The introductory problems focus on the basic methods and tools while the advanced problems aim to develop problem solving techniques and intuition as well as promote further research in the area Solutions are included for each problem

Primary Maths Teacher Resource Book 3 Greg Weeks,2011-11-17 This resource book will help teachers with providing activities practice and worksheets for students Primary Maths Practice and Homework Book 5 Dianne Carr,2011-06-27 Active Maths Practice Homework 5 is arranged in units which provide an open ended task for the week exercises in mental computation review of concepts tackled in the previous week and ample practice of the current week s

work Active Maths Practice Homework 5 is ideal for homework or extra practice in the classroom *Primary Maths Practice and Homework Book 4* Greg Weeks,2011-09-30 Active Maths Practice Homework 4 is arranged in units which provide an open ended task for the week exercises in mental computation review of concepts tackled in the previous week and ample practice of the current week s work Active Maths Practice Homework 4 is ideal for homework or extra practice in the classroom Primary Maths Practice and Homework Book 6 Dianne Carr,2011-07-21 Active Maths Practice Homework 6 is arranged in units which provide an open ended task for the week exercises in mental computation review of concepts tackled in the previous week and ample practice of the current week s work Active Maths Practice Homework 6 is ideal for homework or extra practice in the classroom **Primary Maths Teacher Resource Book 6** Dianne Carr,2011-09-30 Active Maths Teacher Resource 6 contains the teaching framework It describes a range of classroom activities and practice provides additional worksheets and is cross referenced to the student activity pages the Quality Teaching Framework and relevant cards in the Maths in a Box series *Primary Maths Teacher Resource Book 5* Dianne Carr,2011-09-09 Primary Maths Teacher Resource 5 contains the teaching framework It describes a range of classroom activities and practice provides additional worksheets and is cross referenced to the student activity pages The Quality Teaching Framework and relevant cards in the Maths in a Box series Primary Maths Teacher Resource Book 4 Greg Weeks,2011-11-04 Active Maths Teacher Resource 4 contains the teaching framework It describes a range of classroom activities and practice provides additional worksheets and is cross referenced to the student activity pages the Quality Teaching Framework and relevant cards in the Maths in a Box series Problem Solving Tom O'Brien,2002 Suggestions on how to incorporate opportunities for children to develop more sophisticated problem solving strategies into teaching years 1 6 **Teaching Assistant's Handbook** Louise Burnham,Kate Carpenter,2004 Covering mandatory and optional units this book provides teaching assistants what they need to know It covers guidelines and advice for assistants supporting children with English as a second language It also includes illustrations photographs and case studies relevant to those working in secondary schools **2000 Tips for Teachers** Dr Phil Race,Nick Packard,2014-06-03 This volume brings together a wide range of advice and guidance for those teaching in primary and secondary education It covers the full range of issues facing teachers today and is designed as a dip in resource for experienced newly qualified and trainee teachers alike **The Mathematics Lesson-Planning Handbook, Grades 6-8** Lois A. Williams,Beth McCord Kobett,Ruth Harbin Miles,2018-12-28 Your blueprint to planning Grades 6 8 math lessons that lead to achievement for all learners When it comes to planning mathematics lessons do you sometimes feel burdened Have you ever scrambled for an activity to engage your students that aligns with your state standards Do you ever look at a recommended mathematics lesson plan and think This will never work for my students The Mathematics Lesson Planning Handbook Your Blueprint for Building Cohesive Lessons Grades 6 8 walks you step by step through the process of planning focused research based mathematics lessons that enhance the coherence

rigor and purpose of state standards and address the unique learning needs of your individual students This resource deepens the daily lesson planning process for middle school teachers and offers practical guidance for merging routines resources and effective teaching techniques into an individualized and manageable set of lesson plans The effective planning process helps you Identify learning intentions and connect goals to success criteria Select resources and worthwhile tasks that make the best use of instructional materials Structure lessons differently for traditional and block middle school schedules Anticipate student misconceptions and evaluate understanding using a variety of formative assessment techniques Facilitate questioning encourage productive struggle and close lessons with reflection techniques This author team of seasoned mathematics educators make lesson planning practical and doable with a useful lesson planning template and real life examples from Grades 6 8 classrooms Chapter by chapter the decision making strategies empower teachers to plan mathematics lessons strategically to teach with intention and confidence and to build purposeful rigorous coherent lessons that lead to mathematics achievement for all learners *Views and Beliefs in Mathematics Education* Carola Bernack-Schüler,Ralf Erens,Timo Leuders,Andreas Eichler,2015-05-05 International mathematics education researchers give a differentiated overview of views and beliefs of both teachers and students Beliefs about how to teach mathematics have a high impact on the instructional practice of teachers In the same way views and beliefs about mathematics are an essential factor to explain achievement and performance of students The 19th MAVI conference added a variety of research perspectives to the international discussions of mathematics related beliefs The authors of this volume have compiled a rich selection of research results which may further enhance the discussion of MAVI topics in the future

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