

GRADE 10 MATHEMATICS MARCH TEST

QUESTION 1

- 1.1 Copy and complete the following table on your answer sheet. Only tick in the applicable columns.

	N	N ₁	Z	Q	Q'	X	X'
$\sqrt{9} + 1$							
$\frac{5}{2}$							
0,75/3							
$\sqrt{5}$							

- 1.2 Determine between which integers the following irrational number lies:

$$\sqrt{17}$$

- 1.3 Use the ladder method to give the prime factors of 5104.

$$5104 = 2^4 \times 11 \times 29$$

QUESTION 2

Factorise the following expressions:

2.1 $x^2 - 49$

2.2 $2x^2 + 5x - 3$

2.3 $6x^2 - 13x + 6$

2.4 $3x^2 + 9x - 12$

QUESTION 3

Simplify the following expressions:

3.1 $(x - 5)(3x + 2)$

3.2 $6x^2 - 12x + 6$

3.3 $\frac{3x^2 + 12x}{3x}$

QUESTION 4

Simplify the following using the exponential laws.

4.1 $\frac{1}{x^2}$

4.2 $\frac{x^3 \cdot x^2}{x^5}$

Solve for x:

4.3 $2^x - 5 = 11$

QUESTION 5

Solve for x:

5.1 $(x - 3)(x + 5) = 0$

5.2 $3x^2 + 10x + 7 = 0$

5.3 $\frac{1}{x} + \frac{1}{x+1} = \frac{1}{x+2}$

5.4 $\frac{x+2}{x} + 5 > 8$

5.5 Solve x and y simultaneously:

$$\begin{cases} x + y = 10 \\ x - y = 2 \end{cases}$$

5.6 Jane is 3 years older than her sister. Together they are 19 years old.

$$\begin{cases} J = S + 3 \\ J + S = 19 \end{cases}$$

QUESTION 6

6.1 Use the following triangle to determine the trigonometric ratios:



6.1.1

6.1.2

6.1.3

Mathematics Grade12 Paper 2014 March

Susan Perry Gurganus



Mathematics Grade12 Paper 2014 March:

Bringing the Common Core Math Standards to Life Yvelyne Germain-McCarthy,Ivan Gill,2014-11-20 As high school math teachers shift to the Common Core State Standards the question remains What do the standards actually look like in the classroom This book answers that question by taking you inside of real Common Core classrooms across the country You ll see how exemplary teachers are meeting the new requirements and engaging students in math Through these detailed examples of effective instruction you will uncover how to bring the standards to life in your own classroom Special Features A clear explanation of the big shifts happening in the classroom as a result of the Common Core State Standards Real examples of how exemplary teachers are using engaging strategies and tasks to teach algebra geometry trigonometry statistics mathematics across the curriculum and more A detailed analysis of each example to help you understand why it is effective and how you can try it with your own students Practical ready to use tools you can take back to your classroom including unit plans and classroom handouts

The Education Invasion Joy Pullmann,2017-03-14 Most Americans had no idea what Common Core was in 2013 according to polls But it had been creeping into schools nationwide over the previous three years and children were feeling its effects They cried over math homework so mystifying their parents could not help them even in elementary school They read motley assortments of informational text instead of classic literature They dreaded the high stakes tests in unfamiliar formats that were increasingly controlling their classrooms How did this latest and most sweeping reform of American education come in mostly under the radar Joy Pullmann started tugging on a thread of reports from worried parents and frustrated teachers and it led to a big tangle of history and politics intrigue and arrogance She unwound it to discover how a cabal of private foundation honchos and unelected public officials cooked up a set of rules for what American children must learn in core K 12 classes and how the Obama administration pressured states to adopt them Thus a federalized education scheme took root despite legal prohibitions against federal involvement in curriculum Common Core and its testing regime were touted as an absolute game changer in public education yet the evidence so far suggests that kids are actually learning less under it Why then was such a costly and disruptive agenda imposed on the nation s schools Who benefits And how can citizens regain local self governance in education so their children s minds will be fed a more nourishing intellectual diet and be protected from the experiments of emboldened bureaucrats The Education Invasion offers answers and remedies

Teacher Education in Professional Learning Communities Xuefeng Huang,2018-06-20 This book explores the unique experiences of a sister school network in Canada and China contextualized through the lens of the Reciprocal Learning Project which supports the relationship between a school network and teacher education exchange program of two countries Huang uses theoretical viewpoints from teacher learning and comparative education research to analyse and interpret what has happened in the emerging cross cultural school network The book juxtaposes teacher learning and comparative education research from Shanghai and Ontario as teachers in the two places interact and provides

detailed descriptions of teacher collaboration to show how these collaborations were initiated developed and sustained as well as the impact brought about from these collaborations The book offers a unique opportunity to examine how Canadian and Chinese teachers receive and react to opportunities of cross cultural collaboration and learning **Effective Grading Practices for Secondary Teachers** Dave Nagel,2015-03-04 Enact innovative grading systems that more accurately describe student progress This book challenges traditional grading practices and provides alternatives that can have direct impact on student success By making subtle shifts toward standards based grading systems schools can reduce unnecessary course failures provide students and their families a more accurate picture of current progress and increase opportunities for success The author offers a range of grading reform strategies that are built from practical frameworks that are effective and simple to adapt Among the many strengths of this book are Practical application of existing research and evidence base for effective secondary grading reforms A framework for schools and districts to apply and adapt failure prevention strategies such as early failure detection Amnesty Days and meaningful stipulated second chance opportunities for students to reach mastery Functional strategies and actions for shifting toward standards based referenced grading without entirely abandoning letter grades Countering resistance to change through a clearly articulated plan for conducting school wide and classroom level action research around the effectiveness of new or adjusted grading practices Informative and pragmatic this book is spot on with analysis of this elephant in the room issue Nagel uses both empathy and humor in getting to the heart of a process to generate real solutions while underscoring the ultimate need for teacher voice in any successful implementation He provides ready made strategies for real impactful change I m left hopeful that feedback will rule the day Bruce Potter Superintendent Berkshire UFSD Nagel offers an insightful and articulate voice to secondary improvement and alignment through grading practices His tried and true methods through working with real districts provides a starting place and examples for others to follow A must read for anyone serious about ensuring student engagement through meaningful feedback Debra K Howe Superintendent Tri Creek School Corporation POGIL Shawn R. Simonson,2023-07-03 Process Oriented Guided Inquiry Learning POGIL is a pedagogy that is based on research on how people learn and has been shown to lead to better student outcomes in many contexts and in a variety of academic disciplines Beyond facilitating students mastery of a discipline it promotes vital educational outcomes such as communication skills and critical thinking Its active international community of practitioners provides accessible educational development and support for anyone developing related courses Having started as a process developed by a group of chemistry professors focused on helping their students better grasp the concepts of general chemistry The POGIL Project has grown into a dynamic organization of committed instructors who help each other transform classrooms and improve student success develop curricular materials to assist this process conduct research expanding what is known about learning and teaching and provide professional development and collegiality from elementary teachers to college professors As a pedagogy it has been shown to be effective in a variety of

content areas and at different educational levels This is an introduction to the process and the community Every POGIL classroom is different and is a reflection of the uniqueness of the particular context the institution department physical space student body and instructor but follows a common structure in which students work cooperatively in self managed small groups of three or four The group work is focused on activities that are carefully designed and scaffolded to enable students to develop important concepts or to deepen and refine their understanding of those ideas or concepts for themselves based entirely on data provided in class not on prior reading of the textbook or other introduction to the topic The learning environment is structured to support the development of process skills such as teamwork effective communication information processing problem solving and critical thinking The instructor's role is to facilitate the development of student concepts and process skills not to simply deliver content to the students The first part of this book introduces the theoretical and philosophical foundations of POGIL pedagogy and summarizes the literature demonstrating its efficacy The second part of the book focusses on implementing POGIL covering the formation and effective management of student teams offering guidance on the selection and writing of POGIL activities as well as on facilitation teaching large classes and assessment The book concludes with examples of implementation in STEM and non STEM disciplines as well as guidance on how to get started Appendices provide additional resources and information about The POGIL Project

The End of Public Schools David W. Hursh, 2015-10-16 The End of Public Schools analyzes the effect of foundations corporations and non governmental organizations on the rise of neoliberal principles in public education By first contextualizing the privatization of education within the context of a larger educational crisis and with particular emphasis on the Gates Foundation and influential state and national politicians it describes how specific policies that limit public control are advanced across all levels Informed by a thorough understanding of issues such as standardized testing teacher tenure and charter schools David Hursh provides a political and pedagogical critique of the current school reform movement as well details about the increasing resistance efforts on the part of parents teachers and the general public

Arguing with Numbers James Wynn, G. Mitchell Reyes, 2021-04-15 As discrete fields of inquiry rhetoric and mathematics have long been considered antithetical to each other That is if mathematics explains or describes the phenomena it studies with certainty persuasion is not needed This volume calls into question the view that mathematics is free of rhetoric Through nine studies of the intersections between these two disciplines Arguing with Numbers shows that mathematics is in fact deeply rhetorical Using rhetoric as a lens to analyze mathematically based arguments in public policy political and economic theory and even literature the essays in this volume reveal how mathematics influences the values and beliefs with which we assess the world and make decisions and how our worldviews influence the kinds of mathematical instruments we construct and accept In addition contributors examine how concepts of rhetoric such as analogy and viscosity have been employed in mathematical and scientific reasoning including in the theorems of mathematical physicists and the geometrical diagramming of natural scientists Challenging academic

orthodoxy these scholars reject a math equals truth reduction in favor of a more constructivist theory of mathematics as dynamic evolving and powerfully persuasive By bringing these disparate lines of inquiry into conversation with one another Arguing with Numbers provides inspiration to students established scholars and anyone inside or outside rhetorical studies who might be interested in exploring the intersections between the two disciplines In addition to the editors the contributors to this volume are Catherine Chaput Crystal Broch Colombini Nathan Crick Michael Dreher Jeanne Fahnestock Andrew C Jones Joseph Little and Edward Schiappa

ECGBL2015-9th European Conference on Games Based Learning Robin Munkvold and Line Kolås, 2015-09-18 These proceedings represent the work of researchers participating in the 9th European Conference on Games Based Learning which is being hosted this year by Nord Trondelag University College Steinkjer Norway on the 8-9 October 2015 The Conference has become a key platform for individuals to present their research findings display their work in progress and discuss conceptual advances in many different areas and specialties within Games Based Learning It also offers the opportunity for like minded individuals to meet discuss and share knowledge ECGBL continues to evolve and develop and the wide range of papers and topics will ensure an interesting two day conference In addition to the main streams of the conference there are mini tracks focusing on the areas of the design of multiplayer collaborative serious games applied Games and gamification the teacher's role in game based learning games for STEM Science Technology Engineering Mathematics learning assessment of digital game based learning and pervasive and ubiquitous gaming for learning In addition to the presentations of research we are delighted to host the third year of the Serious Game competition which provides an opportunity for educational game designers and creators to participate in the conference and demonstrate their game design and development skills in an international competition This competition is again sponsored by SEGAN Serious Games Network With an initial submission of more than 60 games 28 finalists will present their games at the conference Prizes will be awarded to the games judged to demonstrate the best quality and originality of game play itself and the positioning and articulation of the game's contribution to the educational domain With an initial submission of 190 abstracts after the double blind peer review process there are 75 research papers 15 PhD research papers 4 Non Academic papers and 8 work in progress papers published in these Conference Proceedings These papers represent research from more than 40 countries including Australia Austria Belgium Brazil Bulgaria Canada Czech Republic Denmark Finland France Germany Greece Hungary Ireland Israel Italy Japan Malaysia Norway Portugal Russia Saudi Arabia Slovakia Slovenia South Africa Spain Sweden Switzerland Taiwan ROC The Netherlands The Netherlands United Arab Emirates UK and USA

The Trials of Evidence-based Education Stephen Gorard, Beng Huat See, Nadia Siddiqui, 2017-06-26 The Trials of Evidence based Education explores the promise limitations and opportunities of evidence based policy and practice as the attention of funders moves from a sole focus on attainment outcomes to political concern about character building and wider educational impacts The results and implications of over 20 studies conducted by the authors are combined with large number of studies

from systematic reviews and their implications are spelled out for the research community policy makers schools wanting to run their own evaluations and practitioners using evidence in this well structured and thoughtful text **Spectrum Language Arts and Math, Grade 1** Spectrum,2015-03-02 Spectrum Language Arts and Math Common Core Edition for Grade 1 helps parents understand Common Core standards and helps students master essential Common Core skills Engaging practice pages and sturdy flash cards help students with long vowels sentences vocabulary place value telling time and more Spectrum Language Arts and Math Common Core Edition helps take the mystery out of current academic standards for busy parents This unique resource for kindergarten to grade 5 provides easy to understand overviews of Common Core learning standards for each grade level Each title includes more than 100 skill building practice pages and more than 100 sturdy cut apart flash cards The handy cards make it easy to review important skills quickly at home or on the go You will find all of the focused standards based practice your child needs to succeed at school this year Poverty in America Christina G. Villegas,2025-01-23 This wide ranging and accessible survey of poverty in America examines every important facet of the issue from historical and socioeconomic contributors to poverty to programs policies and ideas crafted to reduce income inequality and poverty across the USA Specific attention is given to shifting ideological views and approaches to poverty and poor relief major historical actions statutes and practices adopted to mitigate poverty s various causes and effects and trends related to mobility and wealth and income disparity Important areas of coverage include the impact of depressions recessions economic booms and social welfare laws on poverty Other subjects receiving extensive coverage include the linkage between educational attainment employment social capital family structure housing security homeownership and geography on poverty Readers will better understand efforts that have been made to alleviate poverty restore a thriving middle class and improve prospects for social and economic mobility An array of complementary materials on poverty and economic inequality in America are also provided including a suite of personal essays a general bibliography primary documents glossary of terms and chronology **Math Instruction for Students with Learning Problems** Susan Perry Gurganus,2017-02-24 Math Instruction for Students with Learning Problems Second Edition provides a research based approach to mathematics instruction designed to build confidence and competence in pre and in service PreK 12 teachers This core textbook addresses teacher and student attitudes toward mathematics as well as language issues specific mathematics disabilities prior experiences and cognitive and metacognitive factors The material is rich with opportunities for class activities and field extensions and the second edition has been fully updated to reference both NCTM and CCSSM standards throughout the text and includes an entirely new chapter on measurement and data analysis *Validation of Score Meaning for the Next Generation of Assessments* Kadriye Ercikan,James W. Pellegrino,2017-03-27 Despite developments in research and practice on using examinee response process data in assessment design the use of such data in test validation is rare Validation of Score Meaning in the Next Generation of Assessments Using Response Processes

highlights the importance of validity evidence based on response processes and provides guidance to measurement researchers and practitioners in creating and using such evidence as a regular part of the assessment validation process. Response processes refer to approaches and behaviors of examinees when they interpret assessment situations and formulate and generate solutions as revealed through verbalizations, eye movements, response times, or computer clicks. Such response process data can provide information about the extent to which items and tasks engage examinees in the intended ways. With contributions from the top researchers in the field of assessment, this volume includes chapters that focus on methodological issues and on applications across multiple contexts of assessment interpretation and use. In Part I of this book, contributors discuss the framing of validity as an evidence-based argument for the interpretation of the meaning of test scores, the specifics of different methods of response process data collection and analysis, and the use of response process data relative to issues of validation as highlighted in the joint standards on testing. In Part II, chapter authors offer examples that illustrate the use of response process data in assessment validation. These cases are provided specifically to address issues related to the analysis and interpretation of performance on assessments of complex cognition, assessments designed to inform classroom learning and instruction, and assessments intended for students with varying cultural and linguistic backgrounds. The Open Access version of this book is available at <http://www.taylorfrancis.com> and has been made available under a Creative Commons Attribution-NonCommercial-NoDerivatives 4.0 license.

Playful STEAM Learning in the Early Years
Amanda Sullivan, Amanda Strawhacker, Decades of research has shown that introducing STEM content like coding and engineering during the foundational early childhood years can lead to many benefits such as improving children's number sense, problem-solving skills, and sequencing ability. Unfortunately, the costs of STEM technologies can be a barrier for many early childhood educators. Additionally, many digital tools and apps are not playful or developmentally appropriate for young learners and can be less inclusive of students who have been historically excluded from STEM. This book addresses these barriers by demonstrating how to leverage an interdisciplinary STEAM (Science, Technology, Engineering, Arts, and Mathematics) approach to pique the curiosity of young students through play-based learning. The authors provide evidence-based, hands-on approaches as well as a practical framework to effectively integrate STEAM learning in the early grades, pre-K to third grade. Readers will explore new ways to play alongside their young learners to make powerful STEAM discoveries and foster a lifelong love of learning. Book Features: Provides tips and strategies rooted in existing frameworks and guidelines as well as the authors' original research on the cognitive and socioemotional benefits of STEAM experiences. Empowers early childhood educators working in any setting, informal, formal, or home settings. Describes a new framework for the equitable design and implementation of play-based STEAM learning in early childhood settings.

Count Girls In Karen Panetta, Katianne Williams, 2018-08-01. Maybe you have a daughter who loves cooking, soccer, and musicals. Maybe she's a social butterfly, an athlete, a fashionista, and a humanitarian who wants to change the world. Be honest, do you think? Well, she's

clearly not a math and science kid Do you assume that certain classes and careers won't appeal to her Count Girls In challenges these assumptions and presents a totally different way of thinking there is a place for all girls and young women not just the science fair winners and robotics club members in science technology engineering and math STEM fields if we can keep their and our minds and options open and meet them where they are To succeed in STEM fields today girls don't have to change who they are A girl who combines her natural talents interests and dreams with STEM skills has a greater shot than ever before at a career she loves and a salary she deserves Count Girls In encourages parents and other adults to raise authentic young women who have the confidence to put STEM to work in a way that best serves them and their passions The authors both STEM professionals present compelling research in a conversational accessible style and provide specific advice and takeaways for each stage of schooling from elementary school through college followed by comprehensive STEM resources This isn't a book about raising competitive test-acing girls in lab coats this is about raising happy confident girls who realize the world of opportunities before them

The Politics of Education in Developing Countries Sam Hickey, Naomi Hossain, 2019-02-21 Why have many developing countries that have succeeded in expanding access to education made such limited progress on improving learning outcomes There is a growing recognition that the learning crisis constitutes a significant dimension of global inequality and also that educational outcomes in developing countries are shaped by political as well as socio-economic and other factors The Politics of Education in Developing Countries focuses on how politics shapes the capacity and commitment of elites to tackle the learning crisis in six developing countries Bangladesh Cambodia Ghana Rwanda South Africa and Uganda The problem of education quality is serious across the Global South The Politics of Education in Developing Countries From Schooling to Learning deploys a new conceptual framework the domains of power approach to show how the type of political settlement shapes the level of elite commitment and state capacity to improving learning outcomes The domain of education is prone to being highly politicized as it offers an important source of both rents and legitimacy to political elites and can be central to paradigmatic elite ideas around nation building and modernity Of particular importance is the relative strength of coalitions pushing for access as against those focused on issues of higher quality education This book concludes with a discussion of entry points and strategies for thinking and working politically in relation to education quality reforms and critical commentaries

The Politics and Governance of Basic Education Brian Levy, Robert Cameron, Ursula Hoadley, Vinodhan Naidoo, 2018-09-05 This is an open access title available under the terms of a CC BY-NC-ND 4.0 International licence It is free to read at Oxford Scholarship Online and offered as a free PDF download from OUP and selected open access locations All over the world economic inclusion has risen to the top of the development discourse A well performing education system is central to achieving inclusive development but the challenge of improving educational outcomes has proven to be unexpectedly difficult Access to education has increased but quality remains low with weaknesses in governance comprising an important part of the explanation The Politics and

Governance of Basic Education explores the balance between hierarchical and horizontal institutional arrangements for the public provision of basic education Using the vivid example of South Africa a country that had ambitious goals at the outset of its transition from apartheid to democracy it explores how the interaction of politics and institutions affects educational outcomes By examining lessons learned from how South Africa failed to achieve many of its goals it constructs an innovative alternative strategy for making process combining practical steps to achieve incremental gains to re orient the system towards learning

Common Core Language Arts and Math, Grade 1 Spectrum,2014-02-03 Help first grade students master Common Core skills such as comparing two texts on the same topic understanding word roots solving word problems and more with Common Core Language Arts and Math for grade 1 Take the mystery out of the Common Core with these unique and timely Spectrum 128 page books These information packed resources for kindergarten through grade 6 provide an overview of the standards for each grade level along with practice activities for school success Includes explicit references to the standards on each practice page that will let parents know that activities provide direct support for skills being taught at school

Handbook of Research on Technology Tools for Real-World Skill Development Rosen, Yigal,Ferrara, Steve,Mosharraaf, Maryam,2015-10-19 Education is expanding to include a stronger focus on the practical application of classroom lessons in an effort to prepare the next generation of scholars for a changing world economy centered on collaborative and problem solving skills for the digital age The Handbook of Research on Technology Tools for Real World Skill Development presents comprehensive research and discussions on the importance of practical education focused on digital literacy and the problem solving skills necessary in everyday life Featuring timely research based chapters exploring the broad scope of digital and computer based learning strategies including but not limited to enhanced classroom experiences assessment programs and problem solving training this publication is an essential reference source for academicians researchers professionals and policymakers interested in the practical application of technology based learning for next generation education

Improving Teacher Knowledge in K-12 Schooling Xiaoxia A. Newton,2018-03-15 This volume examines how several key components of the mathematics education system in the United States fail to provide teachers with adequate and effective tools to teach mathematics in K 12 classrooms These components consist of teachers own learning experiences as students in K 12 classrooms their undergraduate or graduate trainings in mathematics and their in service professional development trainings Newton argues that unless we improve these system components as a whole and recognize the importance of teaching future mathematics teachers explicitly and rigorously the topics they are expected to teach teachers will continue to recycle a body of incoherent and incomprehensible mathematical knowledge to their students because these are the only types of mathematical knowledge they have at their disposal both in terms of what they themselves have learned as K 12 students and in terms of the mathematical resources available to them including the textbooks they rely on to teach as mathematics teachers

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