

NOTE:

- If a candidate answers a question/vraag TWICE, only mark the FIRST attempt.
- Consistent accuracy applies in all aspects of the marking memorandum.

LET WEL:

- Indien 'n kandidaat 'n vraag TWEE keer beantwoord, merk slegs die EERSTE poging.
- Volgehoue akkuraatheid is DEURGAANS in ALLE aspekte van die memorandum van toepassing.

QUESTION/VRAAG 1

1.1.1	$3x^2 - 4x = 0$ $x(3x - 4) = 0$ $x = \frac{4}{3}$ or $x = 0$	✓ factors ✓ both answers (2)
1.1.2	$x - 6 + \frac{2}{x} = 0$ $x^2 - 6x + 2 = 0$ $x = \frac{-(-6) \pm \sqrt{(-6)^2 - 4(1)(2)}}{2(1)}$ $= \frac{6 \pm \sqrt{28}}{2}$ $x = 0,35$ or $x = 5,65$ OR $x - 6 + \frac{2}{x} = 0$ $x^2 - 6x + 2 = 0$ $(x - 3)^2 = -2 + 9$ $(x - 3) = \pm\sqrt{7}$ $x = 3 \pm \sqrt{7}$ $x = 0,35$ or $x = 5,65$	✓ $x^2 - 6x + 2 = 0$ ✓ subs into correct formula ✓ $x = 0,35$ ✓ $x = 5,65$ (4)
1.1.3	$x^{\frac{2}{3}} = 4; x > 0$ $x = (2^2)^{\frac{3}{2}}$ $x = 8$ OR	✓ $x = (2^2)^{\frac{3}{2}}$ ✓ $x = 8$ (2)

Maths Pgrade November Exemplar 2014

Mike Jess

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the name bar.

Maths Pgrade November Exemplar 2014:

Handbook of Research on Teacher Practices for Diverse Writing Instruction Hodges, Tracey S., 2022-05-20 The art and practice of writing is complex and multidimensional students often apply unique writing styles As such educators must apply focused teaching methods to nurture these unique forms of writing Educators must stay up to date with the practices for diverse writing instruction in order to best engage with a diverse classroom However resources related to writing typically do not focus on the depth and breadth of writing and there is a need for a resource that offers a comprehensive look at diverse writing instruction research The Handbook of Research on Teacher Practices for Diverse Writing Instruction provides a rich discussion of the issues perspectives and methods for writing instruction currently in use with an added lens focusing on diversity and equity It provides unique coverage on the topic of writing instruction for practical implementation within the classroom setting Covering topics such as student motivation curriculum development and content area instruction this major reference work is an essential resource for preservice teachers faculty and administration of K 12 and higher education academic libraries government officials school boards researchers and academicians

Make It Happen Kim Bailey, Chris Jakicic, 2018-12-07 Ensure every educator is engaged in the right work with a collective focus on improved student learning Aligned to the Professional Learning Communities PLC at Work model this resource includes instructional coaching tools processes protocols templates tips and strategies designed to support the multidimensional work of instructional coaches and PLC training Each chapter includes action steps and reflective coaching activities as well as suggestions for navigating some of the most common issues instructional coaches face Use this book to understand the unique requirements of instructional coaches in building a school that answers the four critical questions of a PLC at Work Learn how to provide PLC training and professional development for collaborative teacher teams Study three major variables that will affect instructional coaching capacity culture and context and four major actions that will act as guiding principles Explore issues that can arise in PLC schools as well as teacher coaching strategies to help resolve these issues Deepen your understanding of instructional coaching in a PLC with helpful online reproducibles and teacher coaching tools Acquire capacity building strategies aligned to the four PLC questions

Contents Introduction Chapter 1 How to Get Started as an Instructional Coach Chapter 2 What Do We Want Students to Know and Be Able to Do Chapter 3 How Will We Know if They Have Learned It Chapter 4 How Will We Respond When Some Students Do Not Learn Chapter 5 How Will We Extend the Learning of Students Who Are Already Proficient Epilogue Maintaining the Momentum and Sustaining the Process References and Resources Index

The Professional Practice of Teaching in New Zealand Mary Hill, Martin Thrupp, Contributors, The Professional Practice of Teaching in New Zealand contains a wealth of information that pre service teachers need to know in order to learn to teach effectively Written specifically for the New Zealand setting it highlights the range of knowledge and skills that teachers require in order to make a positive difference to their students lives This new

edition has been fully updated to exemplify the latest research and align with the current New Zealand context New chapters on topics such as effective teaching in modern learning environments Maori learners and diverse learners add new depth to the text and sit alongside a new introductory chapter that welcomes students to the profession of teaching in New Zealand Throughout the text many case studies activities and stories from real life teachers and students help readers to link the theory to their classroom practices

Teaching to Change the World Jeannie Oakes,Martin Lipton,Lauren Anderson,Jamy Stillman,2018-01-29 Teaching to Change the World is an up to the moment engaging social justice oriented introduction to education and teaching and the challenges and opportunities they present Both foundational and practical the chapters are organized around conventional topics but in a way that consistently integrates a coherent story that explains why schools are as they are Taking the position that a hopeful democratic future depends on ensuring that all students learn the text pays particular attention to inequalities associated with race social class language gender and other social categories and explores teachers role in addressing them This thoroughly revised fifth edition remains a vital introduction to the profession for a new generation of teachers who seek to become purposeful knowledgeable practitioners in our ever changing educational landscape for those teachers who see the potential for education to change the world Features and Updates of the New Edition Fully updated Chapter 1 The U S Schooling Dilemma reflects our current state of education after the 2016 U S presidential election First person observations from teachers including first year teachers continue to offer vivid authentic pictures of what teaching to change the world means and involves Additional coverage of the ongoing effects of Common Core highlights the heated public discourse around teaching and teachers and charter schools Attention to diversity and inclusion is treated as integral to all chapters woven throughout rather than tacked on as separate units Digging Deeper resources on the new companion website include concrete resources that current and future teachers can use in their classrooms Tools for Critique provides instructors and students questions prompts and activities aimed at encouraging classroom discussion and particularly engaging those students least familiar with the central tenets of social justice education

Exemplary Elementary Social Studies Sherry L. Field,Jeff Passe,Andrea S. Libresco,Janet Alleman,2014-04-01 In many elementary classrooms social studies has taken a back seat to English Language Arts and Mathematics in the wake of No Child Left Behind and Race to the Top This volume is not another hand wringing lament On the contrary the elementary educators who have contributed to this volume have a positive set of stories to tell about how social studies can play a central role in the elementary classroom how teachers can integrate social studies knowledge and skills throughout the school day and how this learning can carry over into children s homes and communities The seven case studies in this book one at each elementary grade level highlight exemplary teachers in whose classrooms social studies is alive and well in this age of accountability At the end of each case study each teacher provides advice for elementary teachers of social studies Our hope is that elementary teachers and prospective teachers elementary principals social studies

supervisors staff developers and professors of elementary social studies methods who study the stories that we tell can be empowered to return social studies to its rightful place in the curriculum

Why Do English Learners Struggle With Reading? John J. Hoover, Leonard M. Baca, Janette K. Klingner, 2016-03-22

Make the right instructional and eligibility decisions to help your English Learners Do your students reading difficulties reflect language acquisition issues or a learning disability Now in an updated second edition this essential guide helps educators make informed accurate choices about strategies and services to support English Learners Developed for general and special education teachers and service providers this trusted resource offers a variety of research based best practices and includes

- Nine common misconceptions that can lead to wrongful placement of students in special education
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- Select evidence based methods for teaching reading to students learning English
- Issues to consider and techniques to use when assessing students for special education and making data based decisions
- Role of cultural influences in reading instruction
- Expanded coverage of multi tiered system of supports MTSS

Readers will find helpful vignettes checklists and suggestions that support outstanding teaching practices and appropriate effective use of assessment and referrals This book provides a wealth of information on ELs within the RTI process The authors provide a number of practical checklists that can be used by any school district Very few books address the topic as well as this one does

Jennifer Urbach Associate Professor University of Northern Colorado

Maths Pgrade November Exemplar 2014 Book Review: Unveiling the Magic of Language

In an electronic era where connections and knowledge reign supreme, the enchanting power of language has be apparent than ever. Its power to stir emotions, provoke thought, and instigate transformation is actually remarkable. This extraordinary book, aptly titled "**Maths Pgrade November Exemplar 2014**," written by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound impact on our existence. Throughout this critique, we shall delve in to the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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web elements in the second row of the periodic table place their electrons in the $2n$ shell as well as the $1n$ shell for instance lithium li has three electrons two fill the $1s$ orbital and the third is placed in the $2s$ orbital giving an electron configuration of $1s^2 2s^1$

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web one more point needs to be emphasized about the relationship between electron configuration and the periodic table the atoms of elements in the same vertical column of the table have similar electron configurations for example consider the alkaline earth elements group iia

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web the electron removed during the ionization of beryllium $he\ 2s^2$ is an s electron whereas the electron removed during the ionization of boron $he\ 2s^2 2p^1$ is a p electron this results in a lower first ionization energy for boron even though its nuclear charge is greater by one proton

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web predictions from reliable sources have been used for these elements grayed out electron numbers indicate subshells filled to their maximum bracketed noble gas symbols on the left represent inner configurations that are the same in each period written out these are $he\ 2$ helium $1s^2$ $ne\ 10$ neon $1s^2 2s^2 2p^6$

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web q1 what is the electron configuration of the element potassium answer the atomic number of potassium is 19 a neutral potassium element has 19 electrons its electron configuration is $1s^2 2s^2 2p^6 3s^2 3p^6 4s^1$ or simply put as $4s^1$ q2 what is the total number of electrons that can be filled in s p and d subshells

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web by building up from hydrogen this table can be used to determine the electron configuration for any atom on the periodic table we will now construct the ground state electron configuration and orbital diagram for a selection of atoms in the first and second periods of the periodic table

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