

GRADE 12 MATHEMATICAL LITERACY MARCH TEST

QUESTION 1

Jane calculated her total tax paid for the previous year.

It came down to the following:

P.A.Y.E (Income Tax)	R54015.00
Estimated VAT on groceries	R 5454.20

1.1 Calculate the VAT.

(2)

1.2 Calculate the P.A.Y.E.

(2)

She further determined that she received tax rebates to the value of R5412.80.

1.3 What is a tax rebate?

(2)

1.4 Calculate the amount of tax Jane paid for the previous year.

(2)

1.5 Calculate the amount of tax Jane paid for the previous year.

(2)

QUESTION 2

Use the tariff system below to answer the questions that follow:

Electricity residential	Tariff for 2023/24	Increase	
		cent/kWh	%
0 to 100 kWh	247.37	15.1%	
101 to 400 kWh	262.47	15.1%	
401 to 600 kWh	307.75	15.1%	
601 kWh and more	331.76	15.1%	

2.1 What is a tariff system?

(2)

2.2 Determine the cost (in rands) of 100 kWh of electricity.

(2)

2.3 The Schmid family used 1 200 kWh of electricity. Calculate the cost.

(2)

2.4 Tony wants to buy a laptop for school. He is looking at the following options:

(2)

2.5 Suggest ONE way in which the Schmidt family can save on their electricity bill.

(2)

(16)

QUESTION 3

3.1 Tony needs to buy a laptop for school. He is looking at the following options:

Option 1	Option 2	Option 3
Cash: R6000.00	Hire Purchase: R5000 open for 24 months with R2000 deposit.	Hire Purchase: R2000 open for 36 months with R2000 deposit.

3.1.1 Calculate the cost.

(2)

3.1.2

(2)

3.1.3 Calculate the monthly payment.

(2)

3.2 In order to make money to fund his laptop, Tony decides to give swimming lessons in his neighbours' pool. His neighbour charges him R500 per month for using his pool. His other variable expenses add up to around R750 per month. Tony breaks even if he has seven swimming lessons per month.

3.2.1 Calculate the total monthly expenses.

(2)

3.2.2 Present the given information on a break-even analysis graph.

Break-even analysis graph: $y = \text{Total monthly expenses}$ and $y = \text{Total monthly income}$

(7)

3.3 Tony buys food and a cold drink at the school tuck shop. His options are:

Burger	Coke
Toasted Sandwich	Fanta
Hamburg	

3.3.1 Present the total cost of buying food and a cold drink.

(2)

3.3.2 Calculate the total cost of buying food and a cold drink.

(2)

3.3.3 Calculate the total cost of buying food and a cold drink.

(2)

Maths Literacy Grade 12 March 2014 Question Paper

Norene A. Bunt

Maths Literacy Grade 12 March 2014 Question Paper:

Solving the Literacy Puzzle Norene A. Bunt, 2024-07-19 While there is growing awareness of the efficacy of the science of reading teachers may feel overwhelmed by the volume of research on literacy. Using templates, assessments, and reflection questions, unpack five core components of literacy instruction within the science of reading framework. This comprehensive guide prepares teachers to confidently implement effective reading instruction in their classrooms. Teachers can use this book to understand the roles of whole group, small group, and independent work. Learn five core literacy components within the science of reading framework. Consider the history of reading instruction and the research behind the science of reading approach. Access templates, rubrics, self-assessments, and other resources. Select appropriate instructional texts for students at all reading levels. Contents: Introduction, Chapter 1: Literacy Instruction and Why It Matters, Chapter 2: Tier 1 Literacy Instruction With Text and Instructional Grouping, Chapter 3: Vocabulary Instruction and Word Retention, Chapter 4: Phonemic Awareness and Language Arts Within Vocabulary Instruction, Chapter 5: Comprehension as the Heart and Goal of Reading, Chapter 6: Text Discussion and Questioning, Chapter 7: Fluency and Reading Proficiency, Chapter 8: The Role and Impact of Independent Reading, Chapter 9: Literacy Development Through Writing, Chapter 10: Whole Group, Small Group, and Independent Work, Epilogue: Implementing the Solution to the Literacy Puzzle, Appendix A: Literacy Practices Self-Assessment, Appendix B: Five Day Instructional Plan, Appendix C: Generic Five Day Instructional Planning Template, Appendix D: Guides for Professional Development for Solving the Literacy Puzzle, References and Resources, Index.

The Mathematics

Lesson-Planning Handbook, Grades K-2 Beth McCord Kobett, Ruth Harbin Miles, Lois A. Williams, 2018-02-09 This book brings together the best of Visible Learning and the teaching of mathematics. The chapters on learning intentions, success criteria, misconceptions, formative evaluation, and knowing thy impact are stunning. Rich in exemplars grounded in research about practice and with the right balance about the surface and deep learning in math, it's a great go-to book for all who teach mathematics. John Hattie Laureate Professor, Deputy Dean of MGSE, Director of the Melbourne Education Research Institute, Melbourne Graduate School of Education. Your blueprint to planning K-2 math lessons for maximum impact and understanding. Not sure of tomorrow morning's lesson plan? Or maybe you feel it isn't tailored enough for your students' needs? What do you do? For that and more help is here. The Mathematics Lesson Planning Handbook, Grades K-2: Your Blueprint for Building Cohesive Lessons guides teachers step by step through the decision-making process of planning K-2 math lessons that are purposeful, rigorous, and coherent. Instructional experts Beth McCord Kobett, Ruth Harbin Miles, and Lois A. Williams streamline and deepen the lesson planning process, showing teachers how to access students' complex needs, clarify learning intentions, and select tasks that will best lead to student understanding of mathematical concepts and skills. Along the way, teachers create an individualized blueprint for planning K-2 math lessons for maximum student learning. The lesson planning process guides teachers to identify the mathematical content, language, and social learning intentions for a lesson or unit and

connect goals to success criteria Determine the purpose of a math lesson you're planning by distinguishing between conceptual understanding procedural fluency and transfer Select worthwhile tasks and materials that make the best use of representations manipulatives and other instructional tools and resources Choose the format of your lesson using reasoning and number routines games whole class discussion and pairs or small group work Anticipate student misconceptions and evaluate understanding using a variety of formative assessment techniques Decide how you'll launch your lesson facilitate questioning encourage productive struggle and close your lesson Included is a lesson planning template and examples from kindergarten first and second grade classrooms Chapter by chapter the decision making strategies empower teachers to plan math lessons strategically to teach with intention and confidence and to build an exceptional foundation in math for all students

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

Handbook of Reading Research, Volume V Elizabeth Birr Moje, Peter P. Afflerbach, Patricia Enciso, Nonie K Lesaux, 2020-06-02 In a time of pressures challenges and threats to public education teacher preparation and funding for educational research the fifth volume of the Handbook of Reading Research takes a hard look at why we undertake reading research how school structures contexts and policies shape students learning and most importantly how we can realize greater impact from the research conducted A comprehensive volume with a gaps and game changers frame this handbook not only synthesizes current reading research literature but also informs promising directions for research pushing readers to address problems and challenges in research design or method Bringing the field authoritatively and comprehensively up to date since the publication of the Handbook of Reading Research Volume IV this volume presents multiple perspectives that

will facilitate new research development tackling topics including Diverse student populations and sociocultural perspectives on reading development Digital innovation literacies and platforms Conceptions of teachers reading readers and texts and the role of affect cognition and social emotional learning in the reading process New methods for researching reading instruction with attention to equity inclusion and education policies Language development and reading comprehension Instructional practices to promote reading development and comprehension for diverse groups of readers Each volume of this handbook has come to define the field for the period of time it covers and this volume is no exception providing a definitive compilation of current reading research This is a must have resource for all students teachers reading specialists and researchers focused on and interested in reading and literacy research and improving both instruction and programs to cultivate strong readers and teachers

The Mathematics Lesson-Planning Handbook, Grades 3-5 Ruth Harbin

Miles,Beth McCord Kobett,Lois A. Williams,2018-07-13 This book brings together the best of Visible Learning and the teaching of mathematics The chapters on learning intentions success criteria misconceptions formative evaluation and knowing thy impact are stunning Rich in exemplars grounded in research about practice and with the right balance about the surface and deep learning in math it's a great go to book for all who teach mathematics John Hattie Laureate Professor Deputy Dean of MGSE Director of the Melbourne Education Research Institute Melbourne Graduate School of Education YOU are the architect in the mathematics classroom When it comes to mathematics lessons do you sometimes feel overly beholden to the required texts from which you teach Do you wish you could break the mold but feel like you get conflicting guidance on the right things to do How often do you find yourself in the last minute online scramble for a great task activity that will capture your students interest and align to your state standards In The Mathematics Lesson Planning Handbook Grades 3-5 Your Blueprint for Building Cohesive Lessons you'll learn the streamlined decision making processes that will help you plan the focused research based standards aligned lessons your students need This daily reference offers practical guidance for when and how to pull together mathematics routines resources and effective teaching techniques into a coherent and manageable set of lesson plans This resource will lead teachers through a process of lesson planning based on various learning objectives Set the stage for lesson planning using relatable vignettes Offer sample lesson plans for Grades 3-5 Create opportunities to reflect on each component of a mathematics lesson Suggest next steps for building a unit from the lessons Provide teachers the space and tools to create their own lesson plans going forward Based on years of classroom experience from seasoned mathematics educators this book brings together the just in time resources and practical advice you need to make lesson planning simple practical and doable From laying a solid foundation to choosing the right materials you'll feel confident structuring lessons that lead to high student achievement

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

Teaching Mathematics Creatively Linda Pound,Trisha Lee,2021-09-30 This revised and updated third edition offers a range of

strategies activities and ideas to bring mathematics to life in the primary classroom Taking an innovative and playful approach to maths teaching this book promotes creativity as a key element of practice and offers ideas to help your students develop knowledge understanding and enjoyment of the subject In the creative classroom mathematics becomes a tool to build confidence develop problem solving skills and motivate children The fresh approaches explored in this book include a range of activities such as storytelling music and construction elevating maths learning beyond subject knowledge itself to enable students to see mathematics in a new way Key chapters of this book explore Learning maths outdoors make more noise make more mess or work on a larger scale Everyday maths making sense of the numbers patterns shapes and measures children see around them Music and maths the role of rhythm in learning and music and pattern in maths Stimulating accessible and underpinned by the latest research and theory this is essential reading for trainee and practising teachers who wish to embed creative approaches to maths teaching in their classroom

Federal Register ,2013-06 Annual Review of Comparative and International Education 2019 Alexander W. Wiseman,2020-06-17 The Annual Review of Comparative and International Education 2019 examines the field of comparative and international education by bringing together scholars professionals and other stakeholders to investigate recent developments in the field that are relevant to

contemporary and future educational reform and applications worldwide **Leading Modern Learning** Jay McTighe,Greg Curtis,2019-07-08 Redesign education to meet the needs of 21st century students In the second edition of Leading Modern Learning authors Jay McTighe and Greg Curtis outline a reworked version of their blueprint for major education reform More than a simple refresh the latest edition incorporates new insights experiences and tools that will help you implement modern

learning practices in your department school or district Use this book to guide education and curriculum reform and empower modern learners Understand the necessity and value of education reform and updating school curriculum for the 21st century classroom Learn how to use a blueprint for your vision of learning mission and curriculum development to establish mission clarity and effective instruction and assessment practices Explore systems thinking and frameworks for backward design that can be utilized by school leadership to develop action plans and guide school curriculum reform for modern learning Read an all new chapter on change management and strategic planning for district and school leadership as well as new Notes From the Field which highlight how to avoid potential missteps and misunderstandings that inhibit progress Utilize the appendices and free reproducibles to further your understanding of education reform curriculum development and school leadership for modern learning A joint publication of ASCD and Solution Tree Contents Foreword Introduction Chapter 1 Creating a Futures Oriented Vision and Mission Chapter 2 From Mission to Action Chapter 3 Curriculum for Modern Learning Chapter 4 An Assessment System for Modern Learning Chapter 5 Instruction for Modern Learning Chapter 6 A Reporting System for Modern Learning Chapter 7 Leadership for Modern Learning Appendix A Sources for Futures Oriented Thinking Tools and Processes Appendix B Sample Sources and Performance Indicators for 21st Century Skills Appendix C Sample Map of Cornerstone Performance Tasks and Transfer Goals References and Resources Index *El-Hi Textbooks in Print* ,1982 The Advertiser's ABC of Official Scales & Charges and Advertisement Press Directory ,1895 *Children's Books in Print* R R Bowker Publishing,Bowker,1999-12 **Paperbound Books in Print** ,1983 **Mathematical Literacy** South Africa. Department of Education,2010 PASS Mathematical Literacy Grade 12 CAPS Cornelia G. Turner,Claudia Bischofberger,2014-06-26 **Maths Literacy** ,2010* **Study and Master Mathematical Literacy Grade 12 CAPS Study Guide** Cornelia G. Turner,Claudia Bischofberger,2013-12-19 Maths Literacy ,2010*

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