



MATHEMATICS LESSON PLAN

GRADE 4

TERM I: January – March

Topic:	Area of a Square
Sub-topic:	Area of a Square
Concepts:	Area of a Square
Learning Objectives:	To understand the concept of area of a square and to calculate the area of a square.
Key Words:	Area, Square, Side, Perimeter
Activities:	Group work, Discussion, Problem Solving

1. **Students will be able to:** Calculate the area of a square by using the formula $\text{Area} = \text{side} \times \text{side}$.

2. **Students will be able to:** Calculate the perimeter of a square by using the formula $\text{Perimeter} = 4 \times \text{side}$.

3. **Students will be able to:** Calculate the area of a square by using the formula $\text{Area} = \text{side} \times \text{side}$.

4. **Students will be able to:** Calculate the perimeter of a square by using the formula $\text{Perimeter} = 4 \times \text{side}$.



Mathematics Lesson Plans Grade 1gauteng Province

Nic Spaull,Jonathan D. Jansen



Mathematics Lesson Plans Grade 1gauteng Province:

Glimpses into Primary School Teacher Education in South Africa Sarah Gravett,Elizabeth Henning,2020-11-05

This book explores the current landscape of Initial Teacher Education ITE in primary schools in South Africa Considering recent policy directives and initiatives it highlights the dilemmas of ITE for the primary school and gives a thorough account of innovations and initiatives to improve ITE The book presents what works best for quality preparation of teachers in the Global South where many children rely on their teachers and school life to break the cycle of poverty Chapters draw on evidence from workplace learning pre service study and primary school teacher education policy to highlight examples of promising change in teacher education in South Africa addressing the clichés of theory versus practice head on This book successfully brings out the challenging aspects of teacher education for childhood learning which has otherwise been regarded as the softer option for a career in education This book will be of great interest for academics researchers and post graduate students in the fields of teacher education African education educational policy international education and comparative education

Early mathematics counts Yasmin A Sitabkhan,Linda Platas,2018-07-23 This occasional paper examines common instructional strategies in early grade mathematics interventions through a review of studies in classrooms in low and middle income countries Twenty four studies met the criteria for inclusion and analyses reveal four sets of instructional strategies for which there is evidence from multiple contexts Of the 24 studies 16 involved the use of multiple representations 10 involved the use of developmental progressions 6 included supporting student use of explanation and justification and 5 included integration of informal mathematics Based on the review we provide conclusions and recommendations for future research and policy

Twenty Years of Education Transformation in Gauteng 1994 to 2014

Maringe, Felix,Prew, Martin,2015-05-05 Twenty Years of Education Transformation in Gauteng 1994 to 2014 An Independent Review presents a collection of 15 important essays on different aspects of education in Gauteng since the advent of democracy in 1994 These essays talk to what a provincial education department does and how and why it does these things whether it be about policy resourcing or implementing projects Each essay is written by one or more specialist in the relevant focus area The book is written to be accessible to the general reader as well as being informative and an essential resource for the specialist reader It sheds light on aspects of how a provincial department operates and why and with what consequences certain decisions have been made in education over the last 20 turbulent years both nationally and provincially There has been no attempt to fit the book's chapters into a particular ideological or educational paradigm and as a result the reader will find differing views on various aspects of the Gauteng Department of Education's present and past We leave the reader to decide to what extent the GDE has fulfilled its educational mandate over the last 20 years

Diversity, Equity, and Inclusion for Mathematics and Science Education: Cases and Perspectives Lin, Cheng-Yao,Sun, Li,2025-06-04 Diversity equity and inclusion DEI are critical pillars for transforming mathematics and science education As classrooms diversify the

need to address systemic barriers and create inclusive learning environments becomes more urgent Cases on DEI in STEM education highlight the real world challenges and strategies educators face in promoting equitable access to learning opportunities dismantling biases and empowering students from historically marginalized communities Further exploration may reveal powerful teaching tools and catalyze reflective practice and institutional change encouraging educators to critically examine their roles in shaping a more inclusive future in math and science Cases on Diversity Equity and Inclusion for Mathematics and Science Education explores key issues and concepts related to diversity equity and inclusion in mathematics and science classrooms It offers solutions and successful strategies for teaching and learning in mathematics and science This book covers topics such as inclusive classrooms K 12 education pre service teaching and is a useful resource for educators sociologists academicians researchers and scientists

Systematic Reviews of Research in Basic Education in South Africa Felix Maringe, 2021-04-09 Maringe ought to be commended for putting together an invaluable contribution to our understanding of research into a complex education system in South Africa This volume provides a useful foundation to the current state of education quality in South Africa including the impact of interventions It also brings to the fore challenges still facing education transformation The evidence presented which taken together lays out a coherent view of how improvements could be made Albert Chanee Head of Planning Gauteng Department of Education For too long the weight of educational scholarship produced in South Africa has been limited to that simple and standard form called the literature review Now for the first time education researchers are provided with an African based text on the concepts and methods of conducting systematic reviews In this exceptional work of editorship Felix Maringe brings together some of the leading researchers on South African education to model and demonstrate how to review a significant body of research on a chosen topic which is adjudicated strictly on the basis of the quality and efficacy of the evidence in hand I have no doubt that this remarkable book will become a standard reference for educational researchers in and beyond the African continent It will also lift the quality of educational inquiry by equipping a new generation of scholars with the capacity for doing evidence based research that compels the attention of policymakers planners and practitioners alike Prof Jonathan Jansen Stellenbosch University

The Education Triple Cocktail Brahm Fleisch, 2018-08-15 The Education Triple Cocktail brings together rigorous quantitative and qualitative research on a new approach to improving foundational teaching and learning for schoolchildren living in working class poor and remote rural communities in resource constrained systems like South Africa At the core of this book is the theory and evidence for a powerful new interlocking and mutually reinforcing change model Inspired by the AIDS treatment story the three pronged approach of structured daily lesson plans appropriate and high quality educational materials and one on one instructional coaching to help teachers transform their instructional practices in early grade classrooms shows that it will improve learning outcomes For education systems defined by low levels of early grade learning and profoundly unequal outcomes The Education Triple Cocktail offers a theoretically informed

evidence based way forward This book will be of immense use to teachers students of Education policymakers and parents

Annual Report South Africa. Department of Basic Education,2016 *South African Schooling: The Enigma of Inequality* Nic Spaull,Jonathan D. Jansen,2019-11-05 This volume brings together many of South Africa s leading scholars of education and covers the full range of South African schooling from financing and policy reform to in depth discussions of literacy numeracy teacher development and curriculum change The book moves beyond a historical analysis and provides an inside view of the questions South African scholars are now grappling with Are there different and preferential equilibria we have not yet thought of or explored and if so what are they In practical terms how does one get to a more equitable distribution of teachers resources and learning outcomes While decidedly local these questions resonate throughout the developing world South Africa today is the most unequal country in the world The richest 10% of South Africans lay claim to 65% of national income and 90% of national wealth This is the largest 90 10 gap in the world and one that is reflected in the schooling system Two decades after apartheid it is still the case that the life chances of most South African children are determined not by their ability or the result of hard work and determination but instead by the colour of their skin the province of their birth and the wealth of their parents Looking back on almost three decades of democracy in South Africa it is this stubbornness of inequality and its patterns of persistence that demands explanation justification and analysis This is a landmark book on basic education in South Africa an essential volume for those interested in learning outcomes and their inequality in South Africa The various chapters present conceptually and empirically sophisticated analyses of learning outcomes across divisions of race class and place The book brings together the wealth of decades of research output from top quality researchers to explore what has improved what has not and why Prof Lant Pritchett Harvard University There is much wisdom in this collection from many of the best education analysts in South Africa No surprise that they conclude that without a large and sustained expansion in well trained teachers early childhood education and adequate school resources South Africa will continue to sacrifice its people s future to maintaining the privileges of the few Prof Martin Carnoy Stanford University Altogether one can derive from this very valuable volume if not an exact blueprint for the future then certainly at least a crucial and evidence based itinerary for the next few steps Dr Luis Crouch RTI A 3D Visualization Teaching-Learning Trajectory for Elementary Grades Children Jacqueline Sack,Irma Vazquez,2016-03-21 This monograph describes the development and use of a 3D visualization teaching learning trajectory for elementary age learners Using design research principles the authors developed this trajectory using the NCTM recommendations and the Spatial Operational Capacity SOC theoretical framework to guide lesson development The SOC framework utilizes actual 3D models 2D and abstract representations of the actual models and a dynamic computer interface the Geocadabra Construction Box which integrates these representations dynamically in real time The work begins with describing the theoretical SOC frameworks that guided the study the inquiry based learning focus the research method used and informal pre program

interviews with participant children The next chapter describes introductory activities used to orient the children to the 3D objects that they used throughout the program The book then focuses on the development of abstract top view numeric plan representations leading to representations of rectangular prisms followed by front side top view representations The last chapter shows how numeracy was integrated into the program to support the demanding official mathematics curriculum

African Drum ,2005

Reviewing **Mathematics Lesson Plans Grade 1gauteng Province**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is truly astonishing. Within the pages of "**Mathematics Lesson Plans Grade 1gauteng Province**," an enthralling opus penned by a highly acclaimed wordsmith, readers set about an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve into the book's central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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