



## MATHEMATICS LESSON PLAN

### GRADE 4

#### TERM I: January – March

<b>Topic/Unit:</b>	<b>Number Systems</b>
<b>Sub-Topic:</b>	<b>Large Numbers</b>
<b>Duration:</b>	<b>40 minutes</b>
<b>Learning Objectives:</b>	<b>To understand the place value of digits in a large number.</b>
<b>Resources:</b>	<b>Number chart, place value chart.</b>
<b>Activities:</b>	<b>Group discussion, role play.</b>
<b>Assessment:</b>	<b>Classroom activity.</b>

**1. Introduction:** The students will be introduced to the concept of large numbers and their place value. The teacher will explain the importance of understanding large numbers in everyday life.

**2. Main Content:** The teacher will explain the place value of digits in a large number.

**3. Activity:** The students will be given a large number and asked to identify the place value of each digit.

**4. Conclusion:** The students will be asked to write a short paragraph about the importance of understanding large numbers.



# Gauteng Province Grade1mathematics Lesson Plans

**J Rink**



## **Gauteng Province Grade1mathematics Lesson Plans:**

**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

**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

*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*

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 Drum ,2006 **Effects of Government Mandates and Policies on Public Education in Africa, the Caribbean, and the Middle East** Cynthia S Sunal,Oluseyi Matthew Odebiyi,Kagendo Mutua,2022-06-01 As the demand for education at all levels has increased so have the models of meeting these increased demands for education As in many other parts of the world public education has expanded to serve large populations across the regions of Africa the Caribbean and the Middle East Many nations in these regions have instituted mandates policies and frameworks intended to simultaneously increase access to public education opportunities as well as improve the quality of education provided and to address a wide populace Because the increase in educational demand has occurred at all levels these efforts often address various levels of education from early childhood through primary schooling junior secondary and secondary schooling and into tertiary education Efforts also have been made to increase participation in education by marginalized and or special populations The range of efforts is large with some focusing on involving migrants immigrants refugees in primary education while others aim at opening up choices at the university level Recently nations in the region have recognized the possibilities of digital learning online learning as cell phones and other widely used portable wireless devices have made it possible to sell the idea that one can learn from anywhere at any time This widespread access to technology has made it possible for governments as well as private entities to expand learning opportunities even to populations previously unreached or to address difficult to reach sectors of the population At the same time the population itself has not only increased in numbers but in diversity Maintaining quality through digital and other means of quick expansion of educational opportunities continues to be challenging if not problematic Effects of Government Mandates and Policies on Public Education in Africa the Caribbean and the Middle East is Book IX of the series Research on Education in Africa the Caribbean and the Middle East Chapters document describe and or raise critical issues and or questions resulting from government policies mandates and frameworks intended to make available public education to an ever growing populace while at the same time being mindful of improving quality of education being availed to an increasingly diverse populace

**Improving Academic Performance and Achievement With Inclusive Learning Practices** Charamba, Erasmios,Ndhlovana, Shalom Nokuthula,2025-06-06 Improving academic performance and achievement requires educational systems to adopt inclusive learning practices that recognize and accommodate the diverse needs of all students Inclusive education emphasizes equitable access to learning opportunities tailored instructional methods and supportive environments that value each learner s background abilities and learning style By implementing strategies such as differentiated

instruction collaborative teaching and assistive technologies educators can foster engagement and enhance outcomes for students from various socioeconomic linguistic and ability backgrounds Further research into inclusive learning practices may promote academic success social cohesion and lifelong learning Improving Academic Performance and Achievement With Inclusive Learning Practices explores the integration of inclusive education into academic practices It examines the use of new curricula teaching methods and achievement parameters for improved academic performance across education sectors This book covers topics such as gamification multilingualism and open distance learning and is a useful resource for educators academicians researchers and scientists     Innovations in online teaching and learning Judah P.

Makonye,Nokulunga S. Ndlovu,2023-03-01 This book s research is on online pedagogical approaches devised by teacher educators and researchers to circumvent a face to face curriculum delivery during the COVID 19 pandemic The challenge faced by educators was that they were uncertain of how to use digital technologies in teaching learning and assessment productively This book reports on case studies on teaching student teachers with technology in a way that advanced not only communication but also the cognitive growth of students in relation to disciplinary knowledge The scholars from South African universities used both conceptual and empirical methodologies mostly in qualitative set ups The scholarly contributions in this book are varied They cover theoretical nuances for ICT use in education considerations for the use of computers in the classroom pedagogical thinking and pedagogical integration of ICTs in education affordances of iPads in visible teaching and learning supporting student cognition in Languages Mathematics Science Engineering Graphics and Design with ICTs The use of software applications such as GeoGebra and Excel in teaching and learning mathematics is researched among others The rich discussions that emerged from their research enable academics to learn from others innovative moments that came as a result of pandemic pressure The recommendations in this book can be used in blended learning beyond the COVID 19 era as curriculum delivery methods are bound to change The value of this book is that it reports on pedagogical innovations in using digital technologies in teacher education Researchers have an opportunity to learn from this book how to deal with the tantalising teaching and learning problem of our time How can the use of digital technology transform teaching and learning in general and teacher education in particular     **Resources in Education**

,1999-04     South African national bibliography ,1997 Classified list with author and title index     Metacognition in Learning Nosisi Feza,2019-12-11 Metacognition skills have been proven to have a positive relationship with learning The strength of metacognition relies heavily on self efficacy where a student understands his her learning style and the ability to use information gathered and align it with his her learning style In addition knowing what you know and how you know it as a student plays a huge role in knowing what you do not know and linking it with what is close or relevant to it that you know It is about having skills and knowledge that empowers you to be an independent learner Literature on classroom practices show a number of short comings in diverse areas such as poor teacher knowledge overcrowded classrooms and lack of

resources for learning An independent student will strive under such an environment by studying independently searching for resources and finding multimodal ways of learning It is also important to note that naturally human beings are curious and want to learn in order to conquer their world Hence Piaget s work of intellectual autonomy cannot be ignored when exploring metacognition If learning experiences were ideal and developmental they would be no need to nurture metacognition Unfortunately the education systems remove students curiosity by bringing fake environments into learning that impede creation and imagination This book emphasises the power of metacognition at different levels of learning It can be seen as a parallel intervention approach with expanded knowledge on how to extend existing skills for young children which is a pre intervention Authors in this book bring diverse viewpoints from diverse fields on how to nurture metacognition thus giving the reader an opportunity to borrow strategies from other fields This contribution is a mixture of empirical contributions and opinion pieces informed by review of literature      Strategic Management in the Public Sector Trevor H. Thys, Prof Charles Wait, Prof Ilse Truter, 2022-07-13 Chapter 1 Integrative strategic planning in South Africa Conceptual frameworks Chapter 2 Electoral mandate priorities policy and strategy Chapter 3 Economic planning economic policy or development policy Past present and future Chapter 4 Planning human resources Chapter 5 General management and leadership Chapter 6 Strategy formulation and environment analysis Chapter 7 Internal analysis and implementation Chapter 8 Strategy implementation and change management Chapter 9 Performance management system Chapter 10 Monitoring and evaluation Chapter 11 Health care in South Africa Chapter 12 Socio economic context of education      South Africa Survey ,1997      **Space Operations** Craig Cruzen, Michael Schmidhuber, Young H. Lee, 2022-03-15 This book includes a selection of reviewed and enhanced contributions presented at the SpaceOps 2021 the 16th International Conference on Space Operations held virtually in May 2021 The chapter selections were made based upon their relevance to the current space operations community The contributions represent a cross section of three main subject areas Mission Management management tasks for designing preparing and operating a particular mission Spacecraft Operations preparation and implementation of all activities to operate a space vehicle crewed and uncrewed under all conditions and Ground Operations preparation qualification and operations of a mission dedicated ground segment and appropriate infrastructure including antennas control centers and communication means and interfaces The book promotes the SpaceOps Committee s mission to foster the technical interchange on all aspects of space mission operations and ground data systems while promoting and maintaining an international community of space operations experts



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