

# **ZIMSEC O-LEVEL COMBINED SCIENCE PAPER 2 Q2 NOV 2020**



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*General Certificate of Education Ordinary Level*

**COMBINED SCIENCE** **40032**

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**NOVEMBER 2020 SESSION**

**2 hours**

*Candidates answer on the question paper.*

*Additional material: Electronic calculator and/or Mathematical table  
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*Power in Contemporary Zimbabwe* Erasmus Masitera, Fortune Sibanda, 2018-04-20 In recent years the Zimbabwe crisis rendered the country and its citizens to be a typical case of failed states the world over Zimbabwean society was and is still confronted with different challenges which include political economic and social problems Attempts to overcome these challenges have thrown light on the power that rests within individuals and or groups to change and even revolutionize their localities communities states and ultimately the world at large Through experience individuals and groups have promoted ideas that have aided in changing mentalities attitudes and behaviors in societies at different levels This book brings together contributors from various academic disciplines to reflect on and theorize the contours of power including the intrinsic and or extrinsic models of power which pertain to individuals communities and or groups in order to transform society Reflections are on various groups such as political movements environmental movements religious groups advocacy groups gender groups to mention but a few as they struggle against marginalization discrimination exploitation and other forms of oppression showing their agency or compliance

**Zimbabwe** Brian Raftopoulos, Tyrone Savage, 2004 The author is from the Institute of Development Studies at the University of Zimbabwe He examines the paradox ensuing from the Lancaster House Settlement at Zimbabwe s independence that whilst colonial rule was ended the framework was provided for continued white privilege on the basis of control of the economy by this elite and through them transnational capital He analyses the responses of the ruling including official elite the black petty bourgeoisie and the group associated with the former Rhodesian Front

**Teaching African History in Schools** , 2020-11-04 Emerging from the pioneering work of the African Association for History Education AHE Afrika Teaching African History in Schools offers an original Africa centred contribution to international history education research Edited by AHE Afrika s founders and directors the volume thus addresses a notable gap in this field by showcasing otherwise marginalised scholarship from and about Africa Teaching African History in Schools constitutes a unique collection of nine empirical studies interrogating curriculum and textbook contents and teachers and learners voices and experiences as they relate to teaching and learning African history across the continent and beyond Case studies include South Africa Kenya Rwanda Zimbabwe Malawi Cameroon and Tanzania as well as the UK and Canada Contributors are Denise Bantrot Carol Bertram Jean Leonard Buhigiro Annie Fatsereni Chiponda Raymond Nkwenti Fru Marshall Tamuka Maposa Abdul Mohamud Sabrina Moisan Reville Nussey Nancy Rushohora Johan Wassermann and Robin Whitburn

**STEM Education**

**in Poverty** Brantina Chirinda, Gladys Sunzuma, Perkins Muredzi, 2025-07-15 This book is about Science Technology Engineering and Mathematics STEM education in poverty and the lessons we learn from Zimbabwe The world is driving towards the fourth Industrial Revolution 4IR where economic growth has been attributed to STEM education STEM education is vital in this era where both developed and developing countries are undergo rapid changes Globally STEM education has been practised differently in schools and universities University programs new school curricula instructional methods extracurricular programs and professional development programs for in service teachers have been created to cater to STEM subjects STEM education is envisioned to produce critical thinkers inventors creators problem solvers innovators and professionals who will solve the world s ever changing challenges including inequity food insecurity climate change inequality and poverty STEM is essential to modern education Zimbabwe has faced significant economic challenges but has made remarkable strides in STEM education By examining the successes and challenges of STEM education in Zimbabwe we can learn valuable lessons about improving STEM education in underserved communities This book contributes to the international debate surrounding the optimal STEM education for students in underserved schools It incorporates detailed accounts of STEM education in Zimbabwe schools shedding light on the challenges students and educators face in impoverished areas In Zimbabwe STEM education faces significant challenges such as materials and facilities pedagogy policy reform access and relevance Some of the main issues highlighted in this book are the need for more resources including funding teaching materials and adequate laboratories Effective STEM pedagogy is hampered by an education system that emphasises the curriculum and teacher centred focus instead of focusing on how students can be taught or learn Research has shown that in Zimbabwe STEM teachers must apply inventive pedagogies and suitable learner centred STEM teaching approaches As a result there is a need for more STEM related programs and courses in schools and universities to improve the opportunities for students to pursue careers in these fields Another challenge is the need for more awareness about the opportunities and importance of STEM education and interest in STEM subjects among students which can be attributed to a lack of exposure and understanding of the relevance and importance of these fields in today s world While lack of resources and other challenges hinder effectiveness opportunity lies in promising pathways of policy and practice In Zimbabwe there is a varying degree of success in the implemented competence based curriculum which emphasises inquiry based learning and STEM education Finally there is a need for early exposure to STEM based career opportunities and for more collaboration between the government private sector and educational institutions to address these challenges and promote STEM education in Zimbabwe This book uses Zimbabwe as an example to explore STEM education in poverty By examining the successes and challenges of STEM education in Zimbabwe this book offers valuable insights into how STEM education can be integrated into the curriculum in countries with developing and emerging economies This book is an essential resource for anyone interested in improving STEM education in underserved communities *Learning to Live*

*Together in Africa through History Education* Denise Bentrovato, 2017-11-13 This study sheds light on the current state of history education in Africa and reflects on its potential to prepare this continent's learners for the challenges of learning to live together Drawing on an examination of school curricula and the experiences of educational stakeholders it identifies trends in the processes and outcomes of recent curricular revisions and discerns key challenges relating to the teaching and learning of history across Africa It scrutinises the place afforded to history within African education systems and surveys related contents and pedagogies While it identifies African history as a fundamental yet sensitive and controversial subject it also illustrates examples of present day curricular strategies to integrating a concern for promoting a culture of peace

The World of Science Education Femi S. Otulaja, Meshach B. Ogunniyi, 2017-09-12 Each volume in the 7 volume series The World of Science Education reviews research in a key region of the world These regions include North America South and Latin America Asia Australia and New Zealand Europe and Israel North Africa and the Middle East and Sub Saharan Africa The focus of this Handbook is on research in science education in mostly former British colonies in Sub Saharan Africa and the scholarship that most closely support this program The reviews of the research situate what has been accomplished within a given field in Sub Saharan Africa rather than an international context The purpose therefore is to articulate and exhibit regional networks and trends that produced specific forms of science education The thrust lies in identifying the roots of research programs and sketching trajectories focusing the changing face of problems and solutions within regional contexts The approach allows readers to review what has been done and accomplished what is missing and what might be done next

Education and Development in Zimbabwe Edward Shizha, Michael T. Kariwo, 2012-01-01 The book represents a contribution to policy formulation and design in an increasingly knowledge economy in Zimbabwe It challenges scholars to think about the role of education its funding and the egalitarian approach to widening access to education The nexus between education democracy and policy change is a complex one The book provides an illuminating account of the constantly evolving notions of national identity language and citizenship from the Zimbabwean experience The book discusses educational successes and challenges by examining the ideological effects of social political and economic considerations on Zimbabwe's colonial and postcolonial education Currently literature on current educational challenges in Zimbabwe is lacking and there is very little published material on these ideological effects on educational development in Zimbabwe This book is likely to be one of the first on the impact of social political and economic meltdown on education The book is targeted at local and international academics and scholars of history of education and comparative education scholars of international education and development undergraduate and graduate students and professors who are interested in educational development in Africa particularly Zimbabwe Notwithstanding the book is a valuable resource to policy makers educational administrators and researchers and the wider community Shizha and Kariwo's book is an important and illuminating addition on the effects of social political and economic trajectories on education and development in Zimbabwe

It critically analyses the crucial specifics of the Zimbabwean situation by providing an in depth discourse on education at this historical juncture The book offers new insights that may be useful for an understanding of not only the Zimbabwean case but also education in other African countries Rosemary Gordon Senior Lecturer in Educational Foundations University of Zimbabwe Ranging in temporal scope from the colonial era and its elitist legacy through the golden era of populist universal elementary education to the disarray of contemporary socioeconomic crisis covering elementary through higher education and touching thematically on everything from the pernicious effects of social adjustment programmes through the local deprofessionalization of teaching this text provides a comprehensive wide ranging and yet carefully detailed account of education in Zimbabwe This engagingly written portrayal will prove illuminating not only to readers interested in Zimbabwe s education specifically but more widely to all who are interested in how the sociopolitical shapes education how ideology policy international pressures economic factors and shifts in values collectively forge the historical and contemporary character of a country s education Handel Kashope Wright Professor of Education University of British Columbia

**Ancient and Indigenous Wisdom Traditions in African and Euro-Asian Contexts** Ehaab Abdou, Theodore Zervas, 2024-08-01 This book brings attention to the understudied and often overlooked question of how curricula and classroom practices might inadvertently reproduce exclusionary discourses and narratives that omit or negate particular cultures histories and wisdom traditions With a focus on representations and classroom practices related especially to ancient and Indigenous wisdom traditions and cultures it includes unique contributions from scholars studying these questions in various contexts The book offers a range of important studies from key African and Euro Asian contexts including Afghanistan Albania Greece Iran South Africa Sweden T rkiye and Zimbabwe The various chapter contributions address and discuss nuances of each of the contexts under study The contributions also help highlight some key commonalities across these contexts including how dominant discourses and various forces have historically shaped and continue to shape and reproduce such omissions misrepresentations and marginalization In addition to seeking to reconcile with some of these ancient and Indigenous wisdom traditions and cultures the book charts a path forward towards more holistic analytical frameworks as well as more inclusive and balanced representations and classroom practices in these aforementioned geographic contexts and beyond It will appeal to scholars researchers undergraduate and graduate students with interests in Indigenous education curriculum studies citizenship education history of education religion and educational policy

**Some Developments in Research in Science and Mathematics in Sub-Saharan Africa** Lorna Holtman, 2008 Much attention in late developing countries is given to providing access to studies which allow school leavers to enter science and technology related careers These programmes are driven by the belief that graduates will then substantially contribute to the developmental needs of their countries But is providing access to institutions enough Students in developing countries often come from school environments lacking in resources human physical and financial This book in a

number of chapters reviews research related to the crucial dimension of epistemological access to the disciplines of import which students need as much as institutional access in order to improve their chances of success A significant feature of this collection s research studies is that their empirical bases are highly localised covering areas such as research methods access curriculum instruction and assessment and the relevance of science and mathematics education in Zimbabwe Uganda Swaziland South Africa Namibia Malawi Ghana and Lesotho This volume provides invaluable insights and will be of relevance to researchers policy makers and lecturers interested in these research outcomes in Sub Saharan Africa It is the outcome of a doctoral research capacity development project the Graduate Studies in Science Mathematics and Technology Education

**GRASSMATE Re-thinking Postcolonial Education in Sub-Saharan Africa in the 21st Century** Edward Shizha, Ngoni Makuvaza, 2017-04-17 What have postcolonial Sub Saharan African countries achieved in their education policies and programmes How far have they contributed to successful attainment of the targeted 2015 Millennium Development Goals MDGs on education What were the constraints and barriers for developing an education system that appeals to the needs of the sub region Re thinking Postcolonial Education in Sub Saharan Africa in the 21st Century Post Millennium Development Goals is an attempt to demonstrate that Sub Saharan Africa has the potential and capability to provide solutions to challenges facing its desire and ability to provide sustainable education to its people To that end the contributors are academics with an African vision attempting to come up with African home grown perspectives to fill the gap created by the lapse of the MDGs as the guiding vision and framework for educational provision in Africa and beyond The book seeks to articulate and address African issues from an informed as well as objective African perspective The book is also intended to provide insights to scholars who are interested in studying and understanding the nature of postcolonial education in the Sub Saharan African region Given the objectives and themes of this book it is intended for academic scholars undergraduate and graduate students human rights scholars curriculum developers college and university academics teachers education policy makers international organisations and local and international non governmental organisations that are interested in African education policies and programmes Rethinking Postcolonial Education in Sub Saharan Africa in the 21st Century provides contemporary reflections from multiple perspectives and re positions the issue of education at the forefront of the debates on African development Lamine Diallo Associate Professor Wilfrid Laurier University Canada The book is a welcome addition to discourses and analyses on education in sub Saharan Africa with reference to a postcolonial critique and the Millennium Development Goals framework on education in Africa Michael Tonderai Kariwo PhD Instructor and Research Fellow University of Alberta Canada **Access of Girls and Women to Scientific, Technical and Vocational Education in Africa** Augustin Mariro, 1999 **Resilience Under Siege** Ezra Chitando, Munyaradzi Nyakudya, Government Phiri, 2016-04-26 This volume explores the challenges and solutions experienced within Zimbabwe s economic and social spheres with particular reference to the crisis years 2000 2008 and the promising

turn 2009 2012 This latter phase was prompted by the formation of the Government of National Unity GNU The contributors to the volume pay attention to how individuals and institutions sought to respond to the crisis critiquing the reactions of various actors and exploring solutions to the various challenges that were experienced Chapters in this book include reviews of agricultural subsidies a gendered approach to poverty the collapse of service delivery including a particular focus on education the look East policy the expansion of the religious sector and the experiences of Zimbabwean migrants in South Africa Underlying these contributions are the concepts of resilience and agency The authors all highlight the massive challenges that individuals and institutions had to navigate and acknowledge the creativity deployed in such quests This book will appeal to scholars in economics history and economic history religious studies education and political science as well as the general reader **Moto**, 1999 *New Leaders, New Dawns?* Chris Brown, David Moore, Blair Rutherford, 2022-06-17 In late 2017 and early 2018 South Africa and Zimbabwe both experienced rapid and unexpected political transitions In Zimbabwe Robert Mugabe the only leader the country had ever known was replaced in a soft coup by his erstwhile vice president Emmerson Mnangagwa Over a twelve day period in February 2018 South African president Jacob Zuma was prematurely forced from office by his former deputy president Cyril Ramaphosa The widespread popular rejoicing that accompanied their arrival compounded the shock of these sudden transitions *New Leaders New Dawns* explores these political transitions and the way they were received Contributors consider how the former liberation heroes Mugabe and Zuma could have fallen so low the underlying reasons for their ouster what happened to their liberation movements turned ruling parties and perhaps most importantly what the rise to power of Ramaphosa and Mnangagwa foreshadowed Bringing together fourteen leading international scholars of southern Africa and adopting a political economy framework this volume argues that the changes in leadership are welcome but insufficient While the time had come for Zuma and Mugabe to go there is little in the personal histories or early policy actions of Ramaphosa and Mnangagwa that suggests they will be capable of addressing the profound social economic and political problems both countries face *New Leaders New Dawns* reveals that despite what these new leaders may have promised a new dawn has not yet arrived in southern Africa

*Investigating the Impact of Information Communication Technology on Self-directed Professional Development of Teachers* Emmanuel Mushayikwa, 2011-03-02 The aim of this research was to investigate the perceived impact of ICT on Zimbabwean A level science and mathematics teachers self directed professional development The study was based on a questionnaire survey of 254 teachers throughout the country Supplementary data came from 54 interviews Some observations of teachers using ICT in teacher centres e mail correspondence and field reports also contributed to the database of the study An analysis framework was developed through the use of grounded theory on the interview transcripts The framework yielded 9 themes relating to the teachers use of ICT for their professional development These were 1 perceived professional identity 2 career development 3 Managing the ICT environment 4 theoretical and content knowledge



5 practical knowledge and skills 6 adaptation 7 professional networking and 8 9 perceived benefits to teachers and students

Chaos complexity theory was used to identify the major attractors goals for teachers self directed professional development using ICT Two attractors were identified These were personal professional development and classroom practice However an over riding factor common to both attractors was identified as self efficacy The study identified the over arching driver for self directed professional development as the teacher s need to improve their self efficacy A two dimensional model of self directed professional development was suggested The systemic element of the model focused on the self correcting impact of ICT use on professional development whilst the personal element focused on self efficacy as the central stratum for self directed professional development The study concluded by acknowledging the potent role that ICT is playing in the self directed continuing professional development of teachers in Zimbabwe and recommended among other things the inclusion of A level teachers in the development of localised online materials resources for their subjects This will help to enhance relevance of the materials to the Zimbabwean context

**Teacher in Zimbabwe** ,2014      *History A-Level (ZIMSEC) Past Exam Questions and Model Answers* David Chitate ,2024-06-06 This book contains the most comprehensive question bank and model answers for ZIMSEC A Level History exam questions It also includes syllabus review notes and exercises History subject Examiners provide observations and tips and point out common errors that students make when answering questions If you use this book faithfully it will be almost impossible for you to fail Use this book and earn yourself a Grade A in History

**Zimbabwe Journal of Educational Research** ,2005      *Festschrift Rufus H. Gouws* Willem Botha,Paul Mavoungou,Dion Nkomo,2013-06-01 The range of languages covered by the lexicographic investigations reported on e g Afrikaans English Northern Sotho Yilumbu Fang French and Dutch is a clear indication of the wide ranging influence of Rufus Gouws to whom the work is dedicated

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