

ZIMSEC O level Combined Science Past Exam Paper 3 Set 2

Paper 3

1. An experiment was set up to investigate the effect of nutrient deficiency in the growth of maize. The set up was left for two weeks as shown below.



(a) (i) In a table form, record the likely observations on the plants in the 4 set ups A, B, C

and D. [4]

(ii) Which set up was the control? [1]

(iii) What is the conclusion? [1]

(b) Basing on the observations in (a) (i) above, state the functions of phosphorus and

nitrogen. [2]

(c) (i) Why were the test tubes covered within a dark cover? [1]

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School Science Practical Work in Africa Umesh Ramnarain, 2020-06-01 School Science Practical Work in Africa presents the scope of research and practice of science practical work in African schools. It brings together prominent science educators and researchers from Africa to share their experience and findings on pedagogical innovations and research informed practices on school science practical work. The book highlights trends and patterns in the enactment and role of practical work across African countries. Practical work is regarded as intrinsic to science teaching and learning and the form of practical work that is strongly advocated is inquiry based learning which signals a definite paradigm shift from the traditional teacher dominated to a learner centered approach. The book provides empirical research on approaches to practical work, contextual factors in the enactment of practical work and professional development in teaching practical work. This book will be of great interest to academics, researchers and post graduate students in the fields of science education and educational policy.

Validating Technological Innovation David Coniam, Peter Falvey, 2016-04-02 This book discusses Hong Kong's use of onscreen marking (OSM) in public examinations. Given that Hong Kong leads the way in OSM innovation, this book has arisen from a recognised need to provide a comprehensive, coherent account of the findings of various separate but linked validation studies of onscreen public examinations in Hong Kong. The authors discuss their experience of the validation process, demonstrating how high stakes innovation should be fully validated by a series of research studies in order to satisfy key stakeholders.

Teacher in Zimbabwe, 2014

The Routledge Handbook of Disability in Southern Africa Tsitsi Chataika, 2018-07-27 This comprehensive, ground breaking southern African centred collection spans the breadth of disability research and practice. Reputable and emerging scholars together with disability advocates adopt a critical and interdisciplinary stance to prove, challenge and shift commonly held social understanding of disability in traditional discourses. Frontiers and practices in prominent areas such as international development, disability studies, education, culture, health, religion, gender, sports, tourism, ICT, theatre, media, housing and legislation. This handbook provides a body of interdisciplinary analyses suitable for the development of disability studies in southern Africa. Through drawing upon and introducing resources from several disciplines, theoretical perspectives and personal narratives from disability activists, it reflects on disability and sustainable development in southern Africa. It also addresses a clear need to bring together interdisciplinary perspectives and narratives on disability and sustainable development in ways that do not undermine disability politics advanced by disabled people across the world. The handbook further acknowledges and builds upon the huge body of literature that understands the social, cultural, educational, psychological, economic, historical and political facets of the exclusion of disabled people. The handbook covers the following broad themes: Disability inclusion, ICT and sustainable development, Access to education from early childhood development up to higher education, Disability employment, entrepreneurship and community based rehabilitation, Religion, gender and parenthood, Tourism, sports and accessibility.

Compelling narratives from disability activists on societal attitudes toward disability media advocacy accessible housing and social exclusion Thus this much awaited handbook provides students academics practitioners development partners policy makers and activists with an authoritative framework for critical thinking and debates that inform policy and practice in incomparable ways with the view to promoting inclusive and sustainable development Contemporary Development Ethics from an African Perspective Beatrice Okyere-Manu, Stephen Nkansah Morgan, Ovet Nwosimiri, 2023-07-29 This book offers fresh academic insights reflections questions issues and approaches to development ethics taking into account African values and ethics Development ethics is an area of applied ethics that examines the moral issues involved in global social and economic transformation While it is a relatively new discipline there have been numerous scholarly publications on it from Western perspectives However only a few studies that focused on development ethics from the African perspective To address this gap the book seeks to answer critical questions such as What does development mean to Africans How can we measure development Who gets to decide and What constitutes just development in Africa With contributions from African scholars from diverse backgrounds the book covers various development themes such as Theories and approaches to development ethics in Africa Environmental Ethics and African Development Ethics Politics and African Development Migration and African development Gender Ethics and Socio economic Development in Africa Education Ethics and African development It is an essential resource for researchers lecturers and students interested in political philosophy and African culture studies Drawing for Science Education Phyllis Katz, 2017-03-23 This book argues for the essential use of drawing as a tool for science teaching and learning The authors are working in schools universities and continual science learning CSL settings around the world They have written of their experiences using a variety of prompts to encourage people to take pen to paper and draw their thinking sometimes direct observation and in other instances their memories The result is a collection of research and essays that offer theory techniques outcomes and models for the reader Young children have provided evidence of the perceptions that they have accumulated from families and the media before they reach classrooms Secondary students describe their ideas of chemistry and physics Teacher educators use drawings to consider the progress of their undergraduates understanding of science teaching and even their moral ethical responses to teaching about climate change Museum visitors have drawn their understanding of the physics of how exhibit sounds are transmitted A physician explains how the history of drawing has been a critical tool to medical education and doctor patient communications Each chapter contains samples insights and where applicable analysis techniques The chapters in this book should be helpful to researchers and teachers alike across the teaching and learning continuum The sections are divided by the kinds of activities for which drawing has historically been used in science education An instance of observation Audubon Linnaeus A process how plants grow over time what happens when chemicals combine Conceptions of what science is and who does it Images of identity development in science teaching and learning Conservation Criminology Meredith L. Gore, 2017-03-14 This

important new text introduces conservation criminology as the interdisciplinary study of environmental exploitation and risks at the intersection of human and natural systems Taking an interdisciplinary approach the book enhances understanding of the various human and organizational behaviors that pose risks to the environment humans and drive conservation crime As human population growth global market economies climate change deforestation and illegal exploitation of natural resources continue to increase academic research from numerous disciplines is needed to address these challenges Conservation Criminology promotes thinking about how unsustainable natural resources exploitation is a cause and a consequence of social conflict Case studies profiled in the book demonstrate this cause and effect type situation as well as innovative approaches for reducing risks to people and the environment This text encourages readers to consider how humans behave in response to environmental risks and the various mechanisms that constitute effective and ineffective approaches to enforcement of wildlife crimes including environmental and conservation policy Case studies from the USA Latin America Africa and Asia highlight corruption in conservation global trade in electronic waste illegal fishing illegal logging human wildlife conflict technology and space water insecurity wildlife disease and wildlife poaching Taken together chapters expand the reader's perspective and employ tools to understand and address environmental crimes and risks and to provide novel empirical evidence for positive change With established contributors providing interdisciplinary and global perspectives this book establishes a foundation for the emerging field of conservation criminology

Land Tenure Challenges in Africa Horman Chitonge, Ross Harvey, 2022-01-01 This book provides a significant contribution to the literature on land reform in various African contexts While the economic evidence is clear that secure property rights are a necessary condition for catalysing broad based economic development the governance process by which those rights are secured is less clear This book details the historical complexity of land rights and the importance of understanding this history in the process of trying to improve tenure security Through a combination of single country case studies comparative case studies and regional comparisons the book is unequivocal that good governance is paramount for improving the performance of land reform programmes All attempts at moving towards more formal secure tenure require congruence with informal norms beliefs and values and a set of clear systems and processes to avoid corruption and unintended negative consequences

Journal of Soil and Water Conservation, 2016 Vol 25 no 1 contains the society's Lincoln Chapter's Resource conservation glossary

HIV and Psychiatry John A. Joska, Dan J. Stein, Igor Grant, 2014-04-07 Editors John A Joska Department of Psychiatry and Mental Health University of Cape Town Dan J Stein Department of Psychiatry and Mental Health University of Cape Town Igor Grant Department of Psychiatry University of California San Diego Mental health and HIV AIDS are closely interlinked Mental disorders including substance use disorders are associated with increased risk of HIV infection and affect adherence to and efficacy of antiretroviral treatments Conversely HIV infection can increase risk for neuropsychiatric complications including stress mood and neurocognitive disorders This book provides clinicians with a comprehensive evidenced based and

practical approach to the management of patients with HIV infection and co morbid mental disorders It provides up to date and clear overviews of current clinical issues as well as the relevant basic science Information and data from studies of different HIV groups eg men who have sex with men make the text relevant to a broad spectrum of clinicians including those working with low socioeconomic status groups in high income countries and those working in the developing world The book uses the popular format of the World Psychiatric Association s Evidence and Experience series Review chapters summarize the evidence on the epidemiology pathogenesis and clinical aspects of mental disorders in HIV and interventions both psychotherapy and psychopharmacology including drug drug interactions These are complemented by commentaries addressing particular facets of each topic and providing insight gained from clinical experience Psychiatrists psychologists and all mental health staff working with HIV infected patients will find this book of great benefit The Parliamentary

Debates (Hansard). Great Britain. Parliament. House of Lords,2006 **Yearbook of International Organizations**

2014-2015, Volumes 1a & 1b (Set) Union of International Associations,2014-06-16 Volume 1 A and B covers international organizations throughout the world comprising their aims activities and events *Turning Promises Into Action* ,2018 More than two years into the life of the 2030 Agenda for Sustainable Development this report calls for dramatic advances in statistics financing and policies for gender equality as well as more determined steps towards democratic governance and accountability Based on robust data and expert analysis the report takes stock of where we stand on key aspects of gender equality globally tells us what is needed to monitor progress meaningfully and provides wideranging recommendations for change Carbon Conflicts and Forest Landscapes in Africa Melissa Leach,Ian Scoones,2015-06-05 Amidst the pressing challenges of global climate change the last decade has seen a wave of forest carbon projects across the world designed to conserve and enhance forest carbon stocks in order to reduce carbon emissions from deforestation and offset emissions elsewhere Exploring a set of new empirical case studies Carbon Conflicts and Forest Landscapes in Africa examines how these projects are unfolding their effects and who is gaining and losing Situating forest carbon approaches as part of more general moves to address environmental problems by attaching market values to nature and ecosystems it examines how new projects interact with forest landscapes and their longer histories of intervention The book asks what difference does carbon make What political and ecological dynamics are unleashed by these new commodified marketized approaches and how are local forest users experiencing and responding to them The book s case studies cover a wide range of African ecologies project types and national political economic contexts By examining these cases in a comparative framework and within an understanding of the national regional and global institutional arrangements shaping forest carbon commoditisation the book provides a rich and compelling account of how and why carbon conflicts are emerging and how they might be avoided in future This book will be of interest to students of development studies environmental sciences geography economics development studies and anthropology as well as practitioners and policy makers The Journal of Energy and Development

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author of 'Medical-Surgical Nursing: Critical Thinking in Client Care, Single Volume (4th Edition)', published 2007 under ISBN ...