

GR 10 Life Sciences Paper 1 scope

– 30 October 2024 –

The following framework outlines the detailed assessment of topics covered in the examination. Teachers are advised to review it with learners to ensure full understanding and effective preparation.

Biological terms:

Eukaryotic, prokaryotic, meristematic tissue, glycogen, chlorophyll, mesophyll, micro-nutrients, macro-nutrients, glycogen, eutrophication, anaemia, selectively permeable, osmosis, diffusion, denature, mitosis, cartilage, rachitis, glycogen, photometer, transpiration, palisade parenchyma, spongy parenchyma, epidermis, epithelia, interphase, cytokinesis

Chemistry of life

Difference between organic and inorganic substances.

Cells: Basic units of life

- Difference between plant and animal cell
- Identify organelles: Make sure of the difference in diagrams of the chloroplast and mitochondria, centrioles, ER and Golgi apparatus
- Know functions of ALL the organelles
- Calculations of magnification

Micro and macro nutrients:

- Functions and deficiency of: Iron, Calcium, Iodine

Difference between prokaryotic and eukaryotic cells

Vitamins: Vit A, B, C and D

Functions and deficiency

Stomata diagram and function

Enzymes:

- Definition
- Lock-and-key model
- Meaning of anabolic and catabolic reactions
- Characteristics of enzymes
- Effect of temperature on enzyme activity

Food tests:

Results for positive and negative outcomes

Substances tested by Benedict, iodine solution and Millon's reagent

Micro and macro nutrients and functions

Cell division(mitosis)

Definition of mitosis

Phases of mitosis and order of the phases

Diagrams of mitosis

Importance of mitosis

Plant and Animal tissues

Diagrams of ALL the tissues

Labels of tissues

Functions of tissues

Focus on the different neurons

2014 Life Science Gr10 Scope

Edward Shizha

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Rebuilding the Natural Environment, Grade 10 Carla C. Johnson, Janet B. Walton, Erin E. Peters-Burton, 2022-05-23 What if you could challenge your tenth graders to think about how innovation can make the world a better place for humans while finding ways to sustain progress and conserve resources With this volume in the STEM Road Map Curriculum Series you can Rebuilding the Natural Environment outlines a journey that will steer your students toward authentic problem solving while grounding them in integrated STEM disciplines Like the other volumes in the series this book is designed to meet the growing need to infuse real world learning into K 12 classrooms This interdisciplinary four lesson module uses project and problem based learning to help students connect their existing knowledge about energy production and its effects on the natural environment to create innovations in renewable sources of energy based on research evidence Working in teams students will design an innovative way to meet society s energy needs and develop a pitch to market their innovation focusing on how the innovation will optimize human experiences while being mindful of the natural environment To support this goal students will do the following Understand several forms of renewable sustainable energy sources Apply their understanding of how alternators are used to generate electricity in lab experiments as well as explain how tools such as windmills and dams are used to operate them Describe how electricity is generated in photovoltaic cells Calculate the amount of electricity consumed by several household items and consider this consumption when determining the average monthly energy consumption of households around the world in comparison to U S households Understand how fossil fuels have been used in the production of electricity and the impact they have had on the world s economy humans quality of life and the earth Identify several hindrances to the creation of new energy sources as well as ideas to counter them List several factors that can be used to motivate people from all walks of life to use renewable and sustainable energies Create a fictional company that uses renewable energies The STEM Road Map Curriculum Series is anchored in the Next Generation Science Standards the Common Core State Standards and the Framework for 21st Century Learning In depth and flexible Rebuilding the Natural Environment can be used as a whole unit or in part to meet the needs of districts schools and teachers who are charting a course toward an integrated STEM approach

Remapping Africa in the Global Space

Edward Shizha, 2014-11-26 What are the benefits and risks for Africa s participation in the globalisation nexus Remapping Africa in the Global Space is a visionary and interdisciplinary volume that restores Africa s image using a multidisciplinary lens It incorporates disciplines such as sociology education global studies economics development studies political science and philosophy to explore and theorise Africa s reality in the global space and to deconstruct the misperceptions and narratives that often infantilise Africa s internal and international relations The contributions to this volume are a hybrid of both outsider and insider perspectives that create a balanced critical discourse that can provide standard paradigms that can adequately explain predict or prevent Africa s current misperceptions and myths about the African crisis and failure status

The authors provide a holistic and perhaps anticolonial and anti hegemonic perspective that can benefit a wide spectrum of academics scholars students development agents policy makers in both governmental and non governmental organisations and engage some alternative analyses and possibilities for socio politico and economic advancement in Africa The book provides up to date scholarly research on continental trends on various subjects and concerns of paramount importance to globalisation and development in Africa The book is brilliant Remapping Africa in the Global Space Propositions for Change explores Africa from the perspective of academics specialised in subject matters pertaining to the continent In this age of globalisation I find this book invaluable It is a good read as it dissects analyses and presents issues affecting the continent in an articulate and cogent way I highly recommend its use in academic institutions Magnus Mfoafo M Carthy Assistant Professor Lyle S Hallman Faculty of Social Work Fellow of Tshepo Institute for the Study of Contemporary Africa Wilfrid Laurier University Kitchener Canada More than anything else Remapping Africa in the Global Space Propositions for Change speaks to the complex multifaceted and interfused character of the development challenges and prospects of Africa Indeed few books have examined contemporary Africa as comprehensively and insightfully as this edited volume it is widely welcomed in the African academic scholarly and research arena Joseph Mensah Professor of Geography York University

Toronto **Implementation of Large-Scale Education Assessments** Petra Lietz, John C. Cresswell, Keith F. Rust, Raymond J. Adams, 2017-03-07 Presents a comprehensive treatment of issues related to the inception design implementation and reporting of large scale education assessments In recent years many countries have decided to become involved in international educational assessments to allow them to ascertain the strengths and weaknesses of their student populations Assessments such as the OECD's Programme for International Student Assessment PISA the IEA's Trends in Mathematics and Science Study TIMSS and Progress in International Reading Literacy PIRLS have provided opportunities for comparison between students of different countries on a common international scale This book is designed to give researchers policy makers and practitioners a well grounded knowledge in the design implementation analysis and reporting of international assessments Readers will be able to gain a more detailed insight into the scientific principles employed in such studies allowing them to make better use of the results The book will also give readers an understanding of the resources needed to undertake and improve the design of educational assessments in their own countries and regions Implementation of Large Scale Education Assessments Brings together the editors extensive experience in creating designing implementing analysing and reporting results on a wide range of assessments Emphasizes methods for implementing international studies of student achievement and obtaining highquality data from cognitive tests and contextual questionnaires Discusses the methods of sampling weighting and variance estimation that are commonly encountered in international large scale assessments Provides direction and stimulus for improving global educational assessment and student learning Is written by experts in the field with an international perspective Survey researchers market researchers

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