

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, procaryotic, 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	Cells: Basic units of life
Difference between organic and inorganic substances.	• 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 Vitamins: Vit A, B, C and D Functions and deficiency	Difference between procaryotic and eucaryotic cells
Enzymes: • Definition • Lock-and-key model • Meaning of anabolic and catabolic reactions • Characteristics of enzymes • Effect of temperature on enzyme activity	Stomata diagram and function
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)	Plant and Animal tissues
Definition of mitosis	Diagrams of ALL the tissues
Phases of mitosis and order of the phases	Labels of tissues
Diagrams of mitosis	Functions of tissues
Importance of mitosis	Focus on the different neurons

14 Life Science Gr10 Scope

Douglas P. Newton



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The Phonoscope ,1899 School Life ,1957 **Bulletin** ,1944 **School Life** ,1957-10 *Research in Education* ,1968 **Catalog of Instructional Tapes for Handicapped Students, Preschool Through University Level** Clearinghouse Depository for Handicapped Students(California). Master Tape Library,1976 **Subject Guide to Books in Print** ,1997 Thinking with Feeling Douglas P. Newton,2014-03-05 Are emotions good or bad for thinking and learning Have you ever wondered why a good lesson of one year falls flat in another Why do students behave the way they do Teachers are expected to foster productive thought yet the neglect of emotion in the classroom in favour of intellect means teaching and learning is often not as effective as it might be Thinking with Feeling explores what we mean by productive thought its interrelationship with mood and emotions how teachers can manage that interaction to improve teaching and learning and what teacher trainers could do about it Synthesising the most important international research in the field it offers a framework for productive purposeful thought deduction understanding creative thinking wise thinking and critical thinking and explains how mood and emotion can support and also impede learning It considers the effect of the interplay of emotion and intellect on classroom behaviour on students public performance and performance in tests and how emotional labour can affect the teacher Illustrated with examples from practice this challenging thoughtful study offers education professionals a basis for understanding the interaction of emotions and cognition and making it a successful partnership in order to improve teaching and learning *Teaching and Learning in the Elementary School* John Jarolimek,Clifford Donald Foster,1993 Teaching and Learning in the Elementary School is built on the most current research and best practice thoroughly examines all of the fundamental teaching skill categories planning for instruction assessing student learning grouping for instruction and creating a safe and effective learning environment while constantly reinforcing the idea that effective elementary school teaching requires continual thoughtful and reflective decision making In this popular volume three well known authors paint a realistic portrait of elementary school teaching as a call to motivate to encourage to simulate to build self esteem and to care for elementary school children For General Elementary Methods courses

Resources in Education ,1998

Whispering the Strategies of Language: An Emotional Journey through **14 Life Science Gr10 Scope**

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<https://legacy.tortoisemedia.com/results/Resources/Documents/6%20Guide%20Language%20Learning.pdf>

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