



## 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.*

<b>Biological terms:</b> 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	
<b>Chemistry of life</b>	<b>Cells: Basic units of life</b>
Difference between organic and inorganic substances.	<ul style="list-style-type: none"> <li>• Difference between plant and animal cell</li> <li>• Identify organelles: Make sure of the difference in diagrams of the chloroplast and mitochondria, centrioles, ER and Golgi apparatus</li> <li>• Know functions of ALL the organelles</li> <li>• Calculations of magnification</li> </ul>
Micro and macro nutrients: <ul style="list-style-type: none"> <li>• Functions and deficiency of: Iron, Calcium, Iodine</li> </ul> Vitamins: Vit A, B, C and D Functions and deficiency	Difference between procaryotic and eucaryotic cells
Enzymes: <ul style="list-style-type: none"> <li>• Definition</li> <li>• Lock-and-key model</li> <li>• Meaning of anabolic and catabolic reactions</li> <li>• Characteristics of enzymes</li> <li>• Effect of temperature on enzyme activity</li> </ul>	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	
<b>Cell division(mitosis)</b>	<b>Plant and Animal tissues</b>
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

# Mindset 2014 Life Science Scope Paper 1

**Arturo Cuomo**



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