



## GR 11 Life Sciences Paper 2 scope

- 1 November 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.*

<p><b>Biological terms:</b> Ecosystems, ecology, environment, ecological niche, Interspecific competition, Intraspecific competition, Competitive exclusion, population density, population size, mortality, natality, chordate, cephalization, immigration, emigration, predator, prey, parasitism, resource partitioning, competition, parasitism, mutualism, commensalism, census, eukaryotic, procaryotic, alien plant species, monocultures, poaching, culling, eutrophication, thallus, indigenous plants, global warming, carbon footprint, food security, biodiversity, ozone, rhizoids, rhizome, pistil, invertebrates, specie, population, vaccination, antibiotics, pathogen, sexual reproduction</p>	
<p><b>Micro -organisms</b> Structure and characteristics of:</p> <ul style="list-style-type: none"> <li>- Viruses</li> <li>- Bacterium</li> <li>- Fungi</li> <li>- Protista</li> </ul>	<p><b>Biodiversity in plants</b> - Identify the different plant groups</p> <ul style="list-style-type: none"> <li>- The presents or absence of the key features of the four groups of plants:</li> <li>- Vascular tissues</li> <li>- True leaves</li> <li>- Seed or spore</li> <li>- Fruit</li> <li>- Water for reproduction</li> </ul> <p><b># Distinguish between the gametophyte generation and sporophyte generation in Bryophytes and Pteridophytes</b></p>
Conditions in which bread mould grow	
Explain what a heterotrophic organism is	Structure of a flower
The role that Fungi plays in the environment	Adaptions for wind pollinations
<b>Malaria</b> - What cause malaria	Advantages of sexual reproduction
- Symptoms of malaria	
- How can you prevent malaria	
<b>Biodiversity in Animals</b>	<b>Population Ecology</b>
<p><b>Key features of the six Phyla:</b></p> <ul style="list-style-type: none"> <li>- Symmetry</li> <li>- Number and names of tissues layers</li> <li>- Number of openings in gut</li> <li>- Coelom</li> <li>- Cephalisation</li> <li>- Blood systems</li> </ul>	<ul style="list-style-type: none"> <li>- Factors that influence population size</li> <li>- Logistic and geometric growth curves and their phases</li> <li>- Predator-prey relation</li> <li><b># Be able to determine which graph indicate the prey/predator and why</b></li> <li>- Determine the size of a population: Quadrant method and mark/capture</li> </ul>

# Life Science Paper Scope

**Ying Liu**



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