

#### 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.

#### Biological terms:

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

Micro -organisms	Biodiversity in plants
Structure and characteristics of:  - Viruses  - Bacterium  - Fungi  - Protista	- Identify the different plant groups  - The presents or absence of the key features of the four groups of plants:  - Vascular tissues - True leaves - Seed or spore - Fruit - Water for reproduction  # Distinguish between the gametophyte generation and sporophyte generation in
Conditions in which bread mould grow	Bryophytes and Pteridophytes
Explain what a heterotrophic organism is	Structure of a flower
The role that Fungi plays in the environment	Adaptions for wind pollinations
Malaria - What cause malaria	Advantages of sexual reproduction
- Symptoms of malaria	
- How can you prevent malaria	
Biodiversity in Animals	Population Ecology
Key features of the six Phyla:  - Symmetry - Number and names of tissues layers - Number of openings in gut - Coelom - Cephalisation - Blood systems	- Factors that influence population size - Logistic and geometric growth curves and their phases - Predator-prey relation # Be able to determine which graph indicate the prey/predator and why - Determine the size of a population: Quadrant method and mark/capture

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# **Table of Contents Life Paper One Scope**

- 1. Understanding the eBook Life Paper One Scope
  - The Rise of Digital Reading Life Paper One Scope
  - Advantages of eBooks Over Traditional Books
- 2. Identifying Life Paper One Scope
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
- 3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Life Paper One Scope
  - User-Friendly Interface
- 4. Exploring eBook Recommendations from Life Paper One Scope
  - Personalized Recommendations
  - Life Paper One Scope User Reviews and Ratings

- Life Paper One Scope and Bestseller Lists
- 5. Accessing Life Paper One Scope Free and Paid eBooks
  - Life Paper One Scope Public Domain eBooks
  - Life Paper One Scope eBook Subscription Services
  - Life Paper One Scope Budget-Friendly Options
- 6. Navigating Life Paper One Scope eBook Formats
  - o ePub, PDF, MOBI, and More
  - Life Paper One Scope Compatibility with Devices
  - Life Paper One Scope Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - $\circ\,$  Adjustable Fonts and Text Sizes of Life Paper One Scope
  - Highlighting and Note-Taking Life Paper One Scope
  - Interactive Elements Life Paper One Scope
- 8. Staying Engaged with Life Paper One Scope
  - o Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Life Paper One Scope
- 9. Balancing eBooks and Physical Books Life Paper One Scope
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Life Paper One Scope
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Life Paper One Scope
  - Setting Reading Goals Life Paper One Scope
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Life Paper One Scope
  - Fact-Checking eBook Content of Life Paper One Scope
  - Distinguishing Credible Sources

- 13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
- 14. Embracing eBook Trends
  - Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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