**LIFE SCIENCES - GRADE 11 2023**

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| **TOPIC** | **ASSESSMENT STANDARDS** | **PORTFOLIO ASSESSMENT TASKS** |
| **PHASE 1 (14 November 2022 – 10 March 2023)** |
| **Biodiversity and classification of micro-organisms** | Viruses and bacteria | **Task 1:** Practical 1 – Micro- organismsDec 2022**Task 2:** Assignment – Micro-organisms20 – 24 Feb**Task 3:** Controlled Test30 Jan – 3 Feb |
| Protists |
| Fungi |
| **Biodiversity of plants** | Mosses, ferns, spermatophytes |
| Asexual and sexual reproduction in plants |
| **Biodiversity of animals** | Key features of body plans and their relationship with modes of living |
| Porifera, Cnidaria, Platyhelminthes, Annelida, Arthropoda, Chordata |
| **Energy Transformations to Sustain Life** | Photosynthesis |
| **PHASE 2 (13 March 2023 – 23 June 2023)** |
| **Energy Transformations to Sustain Life** | Photosynthesis continued | **Task 4:** Practical 2 - Photosynthesis12 – 14 April**Task 5:** June exam12 - 23 June |
| Respiration |
| **Animal Nutrition** | Mechanical and chemical digestion |
| Absorption |
| Assimilation |
| Homeostatic control |
| **Gaseous exchange** | Human gaseous exchange |
| **PHASE 3 (18 July 2023 – 10 November 2023)** |
| **Excretion** | The human excretory system | **Task 6:** Sept Controlled Test Test A: 7 – 11 AugTest B: 4 – 8 Sept**Task 7:** Final Exam 23 Oct – 10 Nov |
| **Population Ecology** | Population size |
| Interactions in the environment |
| Social organisation, succession and human populations |
| **Human impact on the environment** | The atmosphere and climate change |
| Water availability and quality |
| Food security |
| Loss of biodiversity |
| Solid waste disposal |