**LIFE SCIENCES - GRADE 11 2022**

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| **TOPIC** | **ASSESSMENT STANDARDS** | **PORTFOLIO ASSESSMENT TASKS** |
| **PHASE 1 (15 November 2021 – 11 March 2022)** | | |
| **Biodiversity and classification of micro-organisms** | Viruses and bacteria | **Task 1:** Practical 1 – Micro- organisms  Dec 2021  **Task 2:** Assignment – Micro-organisms  15 – 19 March  **Task 3:** Controlled Test |
| 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 (14 March 2022 – 24 June 2022)** | | |
| **Energy Transformations to Sustain Life** | Photosynthesis continued | **Task 4:** Practical 2 - Photosynthesis  25 – 28 April  **Task 5:** June exam |
| Respiration |
| **Animal Nutrition** | Mechanical and chemical digestion |
| Absorption |
| Assimilation |
| Homeostatic control |
| **Gaseous exchange** | Human gaseous exchange |
| **PHASE 3 (19 July 2022 – 14 November 2022)** | | |
| **Excretion** | The human excretory system | **Task 6:** Sept Controlled Test  **Task 7:** Final Exam |
| **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 |