**LIFE SCIENCES - GRADE 11 2021**

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| **TOPIC** | **ASSESSMENT STANDARDS** | **PORTFOLIO ASSESSMENT TASKS** |
| **PHASE 1 (23 November 2020 – 23 April 2021)** |
| **Biodiversity and classification of micro-organisms** | Viruses and bacteria | **Task 1:** Practical 1 – Micro- organismsDec 2020**Task 2:** Assignment – Micro-organisms15 – 19 March**Task 3:** Controlled Test12 – 23 April |
| 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 (3 May 2021 – 9 July 2021)** |
| **Energy Transformations to Sustain Life** | Photosynthesis continued | **Task 4:** Practical 2 - Photosynthesis5 – 9 April**Task 5:** June Controlled test28 June – 9 July |
| Respiration |
| **Animal Nutrition** | Mechanical and chemical digestion |
| Absorption |
| Assimilation |
| Homeostatic control |
| **Gaseous exchange** | Human gaseous exchange |
| **PHASE 3 (26 July 2021 – 12 November 2021)** |
| **Excretion** | The human excretory system | **Task 6:** Sept Controlled Test – Excretion and population ecology27 Sept – 1 Oct**Task 7:** Final Exam 25 Oct – 12 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 |