

LIFE SCIENCES - GRADE 12 2024

| TOPIC | ASSESSMENT STANDARDS | PORTFOLIO ASSESSMENT TASKS |
|--|---|--|
| PHASE 1 (13 November 2023 – 8 March 2024) | | |
| Reproduction | Diversity of reproductive strategies | Task 1: Practical 1 – Nervous system 30 Jan Task 2: Assignment – Nervous system Dec 2023 Task 3: March Controlled Test 21 Feb – 5 March |
| | Human reproduction | |
| Responding to the environment - Humans | Parts of the nervous system and reflexes | |
| | The eye | |
| | The ear | |
| Endocrine system | Location of endocrine glands | |
| | Role of these glands in the body | |
| Homeostasis | Maintaining balance | |
| DNA: The code of life | Nucleic acids: Location, discovery and structure of DNA and RNA | |
| | DNA replication, DNA profiling and protein synthesis | |
| PHASE 2 (11 March 2024 – 31 May 2024) | | |
| Meiosis | Review mitosis and introduce meiosis. Process of meiosis | Task 4: Practical 2 – Meiosis 19 March Task 5: June exam 13 - 31 May |
| Human Evolution | Evidence for human evolution | |
| | Out of Africa hypothesis | |
| | Importance of the Cradle of Humankind | |
| Evolution by natural selection | Origin of ideas about evolution | |
| | Evolution by natural selection – Darwinism | |
| | Speciation | |
| | Mechanisms for reproductive isolation | |
| | Evolution in present times | |
| Responding to the environment - plants | Plant hormones | |
| PHASE 3 (3 June 2024 – 18 October 2024) | | |
| Genetics and inheritance | History of genetics | Task 6: Trials Exam 19 Aug – 6 Sept |
| | Monohybrid and dihybrid crosses | |
| | Mutations, sex-linked disorders | |