

**Prescribed Learning Outcomes: Biology 11**

*It is expected that students will:*

**PROCESSES OF SCIENCE**

- A1 demonstrate safe and correct technique for a variety of laboratory procedures
- A2 design an experiment using the scientific method
- A3 interpret data from a variety of text and visual sources

**TAXONOMY**

- B1 apply the Kingdom system of classification to study the diversity of organisms

**EVOLUTION**

- C1 describe the process of evolution

**ECOLOGY**

- D1 analyse the functional inter-relationships of organisms within an ecosystem

**MICROBIOLOGY**

*Viruses*

- E1 evaluate the evidence used to classify viruses as living or non-living
- E2 evaluate the effects of viruses on human health

*Kingdom Monera*

- E3 analyse monerans as a lifeform at the prokaryotic level of organization
- E4 evaluate the effectiveness of various antibiotics, disinfectants, or antiseptics on bacterial cultures

**PLANT BIOLOGY**

- F1 analyse how the increasing complexity of algae, mosses, and ferns represent an evolutionary continuum of adaptation to a land environment
- F2 analyse how the increasing complexity of gymnosperms and angiosperms contribute to survival in a land environment

**ANIMAL BIOLOGY**

- G1 analyse how the increasing complexity of animal phyla represents an evolutionary continuum
- G2 analyse the increasing complexity of the Phylum Porifera and the Phylum Cnidaria
- G3 analyse the increasing complexity of the Phylum Platyhelminthes, the Phylum Nematoda, and the Phylum Annelida
- G4 analyse the increasing complexity of the Phylum Mollusca, the Phylum Echinodermata, and the Phylum Arthropoda
- G5 relate the complexity of the form and function of vertebrates to the evolutionary continuum of animals