

# Course Description

## Biology

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#### Module 1 - Development of practical skills in Biology

Skills of planning, implementing, analysis and evaluation

#### Module 2 - Foundations in Biology

Cell structure, proteins, cell division, cell diversity and cellular organisation

#### Module 3 - Exchange and transport

Exchange surfaces, transport in animals, and transport in plants

#### Module 4 - Biodiversity, evolution and disease

Communicable diseases, prevention and the immune system. Biodiversity, classification and evolution

#### Module 5 - Communications, homeostasis and energy

Communication, excretion, homeostasis, communication, photosynthesis and respiration

#### Module 6 - Genetics, evolution and ecosystems

Cellular control, patterns of inheritance, manipulating genomes, ecosystems, cloning and biotechnology, populations and sustainability

### Entry Criteria

**Separate Science.** Students must have a Grade 7 in the Science they wish to study with at least a Grade 6 in the others. Students must have a Grade 6 in Mathematics.

**Combined Science.** Students must have a Grade 7,7 in Combined Science with at least a Grade 6 in Mathematics.

At the start of the year, all students will sit a 'Head Start Test' to establish a baseline for progress monitoring and to confirm they meet the course requirements.