



BIOLOGY – Years 3 & 4 Express

INTRODUCTION

Biology is the natural science that involves the study of life and living organisms, including their structure, function, growth and development, evolution and interactions with other organisms and the environment.

In an increasingly complex and globalised world, the approach adopted for the GCE 'O' Level Biology syllabus places emphasis on the understanding and application of scientific concepts and principles.

Candidates should also be prepared to spend significant time in practical work, since science is investigative in nature and students with good practical skills are more likely to succeed in this component.

SYLLABUS

The Year 4 Express cohort is using the 6093 GCE 'O' level Biology syllabus, which includes a practical examination.

The syllabus can be downloaded from the Singapore Examinations and Assessment Board Website:

6093 syllabus:

https://www.seab.gov.sg/docs/default-source/national-examinations/syllabus/olevel/2020syllabus/6093_y20_syllabus.pdf

ASSESSMENT

In Year 3, the students are assessed in coursework and a final examination at the end of the year.

Assessment	Weighting	Remarks
Coursework assessments over Terms 1 - 3	30%	2 coursework assessments of 15% each
Final Examination	70%	Paper 1 and Paper 2

(subject to change)

In Year 4, each of the three major examinations — the Mid Year, the Preliminary, and the 'O' Level itself — has a grade independent of the others. The weighting of papers in each subject area is exactly the same and the formats are identical.

For the cohort, their 6093 GCE 'O' level **Scheme of Assessment** is as follows:

Paper	Duration	Marks	Weighting	Remarks
1	1 h	40	30%	40 compulsory multiple-choice questions
2	1 h 45 min	80	50%	Structured and free response questions
3	1 h 50 min	40	20%	Experimental skills will be assessed.

BIOLOGY SYLLABUS
Subject code: 6093

THEMES & TOPICS

I. Principles of Biology

- Cell Structure and Organisation
- Movement of Substances
- Biological Molecules

II. Maintenance and Regulation of Life Processes

- Nutrition in Humans
- Nutrition in Plants
- Transport in Flowering Plants
- Transport in Humans
- Respiration in Humans
- Excretion in Humans
- Homeostasis
- Co-ordination and Response in Humans

III. Continuity of Life

- Reproduction
- Cell Division
- Molecular Genetics
- Inheritance

IV. Man and His Environment

- Organisms and their Environment