BIOLOGY – *Years 3 & 4 (SEC/O-LEVEL)*

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 on practical work, since science is investigative in nature and students with good practical skills are more likely to succeed in this component.

SYLLABUS

The 2026 Year 3 SEC cohort is using the K325 G3 Biology Secondary Education Certificate syllabus, which can be downloaded from the Singapore Examinations and Assessment Board website.

K325 G3 Biology SEC syllabus:
https://www.seab.gov.sg/files/G3%20Lvl%20Syllabus%20School%20Cddts/2027/k325_y27_sy.pdf

The 2026 Year 4 O-Level cohort is using the 6093 GCE O-Level Biology syllabus:
https://www.seab.gov.sg/files/O%20Lvl%20Syllabus%20Sch%20Cddts/2026/6093_y26_sy.pdf

ASSESSMENT

In Year 3, the students are assessed in common test, practical test and a Year-End examination.

Assessment	Weighting	Remarks
Term 2 & 3: Common Test & Practical Test	30%	15% each
Term 4: Year-End Examination	70%	Paper 1 and Paper 2

**subjected to change*

In Year 4, each of the two major examinations, 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 2026 Year 4 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.

K325 G3 Biology SEC Syllabus	6093 GCE O-Level Biology Syllabus:
Theme I: Cells and The Chemistry of Life 1. Cell Structure and Organisation 2. Movement of Substances 3. Biological Molecules **Theme II: The Human Body – Maintaining Life** 4. Nutrition in Humans 5. Transport in Humans 6. Respiration in Humans 7. Excretion in Humans 8. Homeostasis, Coordination and Response in Humans 9. Infectious Diseases in Humans **Theme III: Living Together – Plants, Animals and Ecosystems** 10. Nutrition and Transport in Flowering Plants 11. Organisms and their Environment **Theme IV: Continuity of Life** 12. Molecular Genetics 13. Reproduction 14. Inheritance	**Theme I: Cells and The Chemistry of Life** 1. Cell Structure and Organisation 2. Movement of Substances 3. Biological Molecules **Theme II: The Human Body – Maintaining Life** 4. Nutrition in Humans 5. Transport in Humans 6. Respiration in Humans 7. Excretion in Humans 8. Homeostasis, Coordination and Response in Humans 9. Infectious Diseases in Humans **Theme III: Living Together – Plants, Animals and Ecosystems** 10. Nutrition and Transport in Flowering Plants 11. Organisms and their Environment **Theme IV : Continuity of Life** 12. Molecular Genetics 13. Reproduction 14. Inheritance