

Dunman Secondary School

GCE O-LEVEL Computing (7155)

For Secondary 3 EXP

AY2025

Aim

The O-Level Computing syllabus aims to provide students with the **foundation to continue with further studies in computing** and **skills to participate in a rapidly changing technological environment** so that the concepts and skills learnt would also be applicable in other fields that require computing.

Aim

01

Acquire knowledge and understanding of core areas in computing covering concepts of logic, algorithms, data analysis, data representation and networking;

02

Develop and apply computational thinking skills such as abstraction and decomposition to solve real-world problems by designing, writing, testing and debugging programs using a personal computer;

03

Develop an appreciation of computing as a dynamic and creative field including awareness of recent developments in computer systems;

04

Develop an understanding of the social, ethical, legal and economic implications of computing; and

05

Develop attitudes and 21CC needed to do well in computing such as inventive thinking, perseverance, collaboration, communication as well as striving for accuracy and thoroughness.

Syllabus

Module	Syllabus
Module 1	Computing Fundamentals
Module 2	Algorithms and Programming
Module 3	Spreadsheets
Module 4	Networking
Module 5	Impact of Computing

Assessment

Paper	Mode	Duration	Weighting	Marks	Format	Modules Assessed
1	Written	2 h	60%	80	A mixture of <ul style="list-style-type: none">• Multiple choice questions (single- and multiple-answer)• Short-answer questions• Matching questions• Cloze passages• Structured questions	All the five modules
2	Lab-based	2 h 30 m	40%	70	<ul style="list-style-type: none">• One question on Spreadsheets• Four to five questions on Programming	Module 2: Algorithms and Programming Module 3: Spreadsheets

Resources

Blended learning, collaborative learning



STUDENT LEARNING SPACE
(SLS)



E-TEXTBOOK



PROJECTS &
ASSIGNMENTS

Introductory Lesson at Secondary 2

Mini lesson on a topic in Computing syllabus.

Students self-pace to complete course materials and to take assessment when ready by T3W1.

Grades achieved will contribute to assess suitability of students.

Criteria



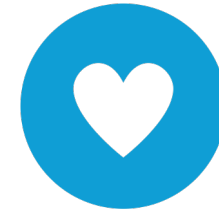
Academics

Secondary 2 OVERALL
Mathematics grade



Aptitude Test

SLS introductory
lesson grade



Passion*

Submit a one-minute video
to tell us about yourself

You may be suitable for Computing if you have:

- self-disciplined to complete readings before lessons.
- logical problem-solving skills.
- critical thinking skills.
- debugging and troubleshooting skills.
- passion for all things that are IT related.