

Computer Curriculum 2022-2023

Aims of Curriculum

1. Develop knowledge and understanding of the range and organization of computer systems, and the interrelationships between hardware, software and data.
2. develop students into competent, effective, discriminating, ethical and confident users of ICT, so as to support their lifelong learning.
3. Use a range of applications software effectively, ethically and with discrimination to support information processing and problem-solving.
4. Demonstrate an understanding of methods for analyzing problems, and planning and implementing solutions using ICT.
5. Equip students with problem-solving and communication skills, and encourage them to think critically and creatively.

Curriculum Plan

S.1	
Topics to be covered	Term
Computer System	First Term
File Management	
Computer Ethics	
Logo Programming	
Word Processing	
Quick Input Method	Second Term
Use of PhotoShop	
Swift Playground	

S.2	
Topics to be covered	Term
Basic components of a computer system	First Term
Storage Units	
Software	
Programming Languages	
Spreadsheet	
Computer Ethics	
Introduction to HTML	Second Term
Webpage Authoring with Dreamweaver	
Game Programming with Scratch	

S.3	
Topics to be covered	Term
Audio Editing	First Term
Programming Concept + Micro-bit	
Python Programming	Second Term
Introduction to AI with Computer Ethics (AI related)	
Video Editing	

S.4 (New Syllabus 2025)	
Topics to be covered	Term
Introduction to Information Processing	First Term
Data Organization and Data Control	
Data Representation	
Relational Databases	
SQL statements (1)	Second Term
Computational Thinking & Programming (D1 & D2)	
Computer System Fundamentals	

S.5	
Topics to be covered	Term
Introduction to Database Design Methodology	First Term
Database Applications, Development and Society	
Basic Machine Organization	
System Software	
Computer Systems	Second Term
The Networking and Internet Basics	
Internet Services and Applications	
Problem-Solving Procedures	
Algorithm Design	
Algorithm Testing	

S.6	
Topics to be covered	Term
The Use of Office Automation Software (Advanced)	First Term
Elementary Web Authoring	
Equity of Access	
Work and Health Issues	
Intellectual Property	
Threats and Security on the Internet	