

## **Computer Curriculum 2019-2020**

### **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**

<b>S.1</b>	
<b>Topics to be covered</b>	<b>Term</b>
Computer System	First Term
File Management	
Logo Programming	
Word Processing	
Quick Input Method	Second Term
Use of PhotoShop	
Programming Concept + Micro-bit	

<b>S.2</b>	
<b>Topics to be covered</b>	<b>Term</b>
Basic components of a computer system	First Term
Storage Units	
Software	
Programming Languages	
Spreadsheet	
Introduction to HTML	Second Term
Webpage Authoring with Dreamweaver	
Concept of Animation	
Creating Animation with Flash	

<b>S.3</b>	
<b>Topics to be covered</b>	<b>Term</b>
Game Programming with Scratch	First Term
Audio Editing	Second Term
Video Editing	

<b>S.4</b>	
<b>Topics to be covered</b>	<b>Term</b>
Introduction to Information Processing	First Term
Data Organization and Data Control	
Data Representation	
The Use of Office Automation Software	Second Term
Presentation of Information	
Introduction to Databases	
Relational Databases	

<b>S.5</b>	
<b>Topics to be covered</b>	<b>Term</b>
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	

<b>S.6</b>	
<b>Topics to be covered</b>	<b>Term</b>
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	