



Curriculum Outline 2019/20 – Year 10 ICT & Computing (SMS)

Autumn 2019

Principal Text: *Website online textbook: PGOnline*

Cambridge IGCSE Computer Science Coursebook

Pupils cover Data Representation theory, Communication and Internet Technologies and continue to learn to program in C# learning the relevant programming concepts.

As part of the practical aspects of the lessons pupils also learn: pseudocode, flowcharts and algorithm design and problem solving.

Links with fundamental values

Learning about acceptance and tolerance in their use of the internet, school and workplace.

Social, moral, spiritual and cultural content
Pupils learn the importance of computer law, ethics, moral and social issues. Pupils consider both the benefits and this problems that arise from the widespread use of technology in society.

Opportunities to independently extend learning
Pupils will continue to be encouraged to install C# on their home computers to continue to develop their programming skills.

Spring 2020

Principal Text: *Website online textbook: PGOnline*

Cambridge IGCSE Computer Science Coursebook

Covering the theory topics of the IGCSE curriculum:

Input Devices; Output Devices; Memory; Storage Devices and Media.

Pupils continue to learn to program in C# learning more advanced programming concepts.

As part of the practical aspects of the lessons pupils continue to deepen their knowledge and practice of: pseudocode, flowcharts and algorithm design and problem solving.

Summer 2020

Principal Text: *Website online textbook: PGOnline*

Cambridge IGCSE Computer Science Coursebook

Covering further theory topics of the IGCSE curriculum: Computer Architecture, Languages and Operating Systems. Pupils will also review topics covered in the Autumn and Spring Terms to prepare for Summer exams.

Pupils continue to learn to program in C# learning more advanced programming concepts.

As part of the practical aspects of the lessons pupils continue to deepen their knowledge and practice of: pseudocode, flowcharts and algorithm design and problem solving.