

KS3

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KS4

Curriculum Narrative

We follow the AQA specification of Computer Science at GCSE level. Students are taught a high-quality computing syllabus which equips them to use computational thinking and creativity to understand and change the world. Computing has deep links with mathematics, Science and Design and Technology, and provides insights into both natural and artificial systems. The core of computing is Computer Science, in which students are taught the principles of information and computation, how digital systems work and how to put this knowledge to use through programming. Building on this knowledge and understanding, students are equipped to use information technology to create programs, systems and a range of content. Computing also ensures that students become digitally literate – able to use, and express themselves and develop their ideas through, information and communication technology – at a level suitable for the future workplace and as active participants in a digital world. This exciting GCSE gives students many excellent opportunities to investigate how computers work and how they are used, and to develop computer programming-computational thinking and problem-solving skills.

KS4

Curriculum Map

Why choose CS
Course awareness
Base line Yacapaca tests
History of Computing
History of Software
History of Computer Games
Peer Assessment

Fundamentals of Algorithms
[1 Introduction](#)
[2 Representing Algorithms](#)
[3 Efficiency of Algorithms](#)
[4 Searching Algorithms](#)
[5 Sorting Algorithms](#)
Yacapaca exam assessment
Hour of code
[Coding introduction](#)

Computer Systems
[1 Hardware and software](#)
[2 Boolean logic](#)
[3 Software classification](#)
[4 Systems architecture](#)
Portfolio of work
Coding 1
[Programming](#)
Coding challenges

Data
Representation 1
[1 Data Representation](#)
[2 Number Bases](#)
[3 Conversions](#)
[4 Units of information](#)
[5 Binary arithmetic](#)
Test
Coding 2
[Programming](#)

Mock revision
Cyber Security
[1 Cyber security](#)
[2 Cyber security threats](#)
[3 Detect & prevent threats](#)
Advice
Website

Coding
[Programming](#)
Ethical, Legal, Environmental Impact
[1 Impact of digital techT](#)

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Curriculum Map

Year 7 PoS - <https://drive.google.com/file/d/13K6Esv5EGKjnZzPoteFNKzhNL7y8eGtb/view?usp=sharing>

Year 8 PoS - <https://drive.google.com/file/d/1nnLGbBXEe2NTD7MQzHRpXOBb3FC3cYcn/view?usp=sharing>

Year 9-10 PoS - <https://drive.google.com/file/d/1CQ-0Qn7zOM431Z2bK-bOhCpMlumhXxoT/view?usp=sharing>

Year 10-11 PoS - <https://drive.google.com/file/d/1iC90mxB8FYw1D1DUWq8rJSfd-wrfdWwH/view?usp=sharing>