

## Curriculum Content

Key Stage 3 Y7-9 (Computer Science)

Incorporates the three strands of Computer Science, Digital Literacy and Information Technology.

Weblink: <https://www.gov.uk/government/publications/national-curriculum-in-england-computing-programmes-of-study/national-curriculum-in-england-computing-programmes-of-study#key-stage-3>

Year 7 Topics	Year 8 Topics	Year 9 Topics
Collaborating Online Online Safety and Cyber Security Spreadsheets Ciphers and Codes Programming Micro:bit	Computing Systems Developing for the Web Flowcharts and Algorithms Mobile App Development Robots and Algorithms Number Representations Vector Graphics	Cyber Security Python Introduction Data Science Media Animation Physical Computing

GCSE Y10-11 (Computer Science)

Exam Board: **OCR**

Exam Board Specification: **J277**

Weblink: <https://www.ocr.org.uk/Images/558027-specification-gcse-computer-science-j277.pdf>

Year 10 Topics	Year 11 Topics
Boolean Logic Computer Systems and Architecture Algorithms Data Representation Programming Fundamentals	Networks & Security Ethical, legal, cultural and environmental impacts of Technology Programming Languages and IDE's Programming Project

A Level Y12 & Y13 (Computer Science)

Exam Board: **AQA**

Exam Board Specification: **7517**

Weblink: <https://filestore.aqa.org.uk/resources/computing/specifications/AQA-7516-7517-SP-2015.PDF>

Year 12 Topics	Year 13 Topics
Fundamentals of Programming Problem solving and theory of computation Data Representation	Data Structures Algorithms Regular Languages

Hardware and Software Computer Organisation and Architecture Communication: Technology and Consequences	The Internet Databases and Software Development OOP and Functional Programming
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