

What will my child learn in Computer Science?

	Term 1	Term 2	Term 3	Term 4	Term 5	Term 6
Year 9	Digital Systems - Computer systems - Computer Devices - Computer Components	Digital Systems - The CPU - Memory & Storage - Units of storage	Programming - Introduction to Scratch - Helicopter - Racing cars - Tanks - Space invaders	Programming - Introduction to Python - - Input, Output, Variables & Strings - - Loops & conditions - Nested code - Love Calculator	Microsoft Office - Word Skills - PowerPoint Skills - Excel Skills	Online Safety - Inappropriate conduct - Inappropriate contact - Inappropriate contact - Inappropriate content - Reporting concerns

OCR GCSE Computer Science J277 (GCSE Option Students)

	Term 1	Term 2	Term 3	Term 4	Term 5	Term 6
Year 10	Python Skills-String concatenation-Variables, input & output-Data types-Loops (For/While)-Conditional statements-Math & Logic-Functions-Random Numbers	 1.1 System Architecture Architecture of the CPU CPU Performance Embedded Systems 	 1.2 Memory & Storage Primary Storage Secondary Storage Units Data storage Compression 	 1.3 Computer Networks, Connections and Protocols Networks & topologies Wired and wireless networks, protocols and layers 	 1.4 Network Security Threats to computer systems and networks Identifying and preventing vulnerabilities 1.5 Systems Software Operating systems Utility Software 	 1.6 Ethical, legal, cultural and environmental impacts of digital technology Ethical, legal cultural and environmental impact
Year 11	 2.1 Algorithms Computational thinking Designing, creating and refining algorithms Searching and sorting algorithms 	2.2 Programming Fundamentals - Programming fundamentals - Data types - Additional programming techniques	2.3 Producing Robust Programs - Defensive design - Testing	2.4 Boolean Logic - Boolean Logic	 2.5 Programming Languages & IDEs Languages The integrated Development Environment (IDEs) 	