

GCSE COMPUTER SCIENCE Plans for Year 10 Curriculum

Term	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Year 10 (OCR J277)	Memory and Storage To understand the role of specific hardware devices and the operation of a computer system parts and understand the link between hardware and software.	To understand the purpose and functionality of <i>operating system</i> and <i>utility</i> software.	Computers networks, connections, and protocols To understand the use of wired and wireless networks in modern communication, how data packets are transmitted between electronic devices and	Network security To understand the importance of keeping data safe from malicious intent, in identifying the risks and applying methods to protect it.	To introduce the concept of a <i>computer system</i> and the components of the <i>CPU</i> .	End-of-Year Examination period
	Boolean Logic To understand and use the use of AND, OR and NOT logic gates in diagrams and truth tables.		the protocols used. Algorithms & Programming fundamentals To know the use of standard algorithms and the core programming constructs of sequence, selection and iteration. kills in Python and SQL to be able to identify sequence, ode, to solve problems, create web pages, and query		Producing robust programs To understand the aspects of writing computer code that supports its maintenance and development. Mini Project intro.	Mini project To develop a programming project to consolidate programming techniques in practice and preparation of the Practical Programming Task.
Assessed through	Targeted class and home learning tasks and end of unit tests.	database data over the dur Programming exercises, targeted home learning tasks and end of unit tests.	ation of the course. Home learning tasks based on examination questions and end of unit tests.	Home learning tasks based on examination questions and end of unit tests.	Programming exercises, targeted home learning tasks and end of unit tests.	A working and fully tested coded solution to the set problem.



GCSE COMPUTER SCIENCE Plans for Year 11 Curriculum

Term	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Year 11 (OCR J277)	To explore the wider implications of the use of computers in the modern world. Producing robust code and Programming languages IDEs To understand how the tools of an Integrated Development Environment (IDE) are used to help create computer code. Practical Programming Task 2 A programming project based on the design, write, test solution to a given school-based task. The coded solution can be developed outside of the classes Completion of project Home learning tasks		Mock Examination period (02) To review and revise the entire examination Component 01 and Component 02 specification.	Review and Revision To review and revise the entire examination specification.	Examinations	
Assessed through				Home learning tasks based on examination questions and timed unit tests.		