

## GCSE COMPUTER SCIENCE Plans for Year 10 Curriculum 2024-25

Term	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
<b>Year</b> <b>10</b> (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 <i>hardware</i> and <i>software</i> .	Systems 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 the protocols used.	Network security To understand the importance of keeping data <i>safe</i> from malicious intent, in identifying the <i>risks</i> and applying methods to <i>protect</i> it.	Option examination periodSystems ArchitectureTo introduce the concept of a computer system and the components of the CPU.	Mini project To develop a programming project to consolidate programming techniques in practice and preparation of the Practical Programming Task.
	Boolean Logic To understand and use the use of AND, OR and NOT logic gates in diagrams and truth tables.	selection and iteration in co	Algorithms & Programming fundamentals To know the use of standard algorithms and the core programming constructs of <i>sequence</i> , <i>selection</i> and <i>iteration</i> . kills in <b>Python</b> and <b>SQL</b> to be able to identify <i>sequence</i> , ode, to solve problems, create web pages, and query		Producing robust programs To understand the aspects of writing computer code that supports its <i>maintenance</i> and development.	
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 2024-25

Term	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Year 11 (OCR J277)	Concerns & To explore the <i>wider implications</i> of the use of computers in the modern world.		Mock examination period To review and revise the entire examination Component 01 and Component 02 specification.	Revision Review and Revision To review and revise the entire examination specification.	<u>Examinations</u>	
	A programming project based on the <i>design, write, test, refine.</i> To create a solution to a given school based task. The coded solution can be developed outside of the classroom.					
Assessed through	Completion of project work.	Home learning tasks based on examination questions and revision tasks.	Formal Component 01 and Component 02 examination papers	Home learning tasks based on examination questions and timed unit tests.		