Year 10 GCSE	Curriculum Intent:					
Computer	OCR's GCSE (9–1) in Computer Science will encourage students to					
Science	• understand and apply the fundamental principles and concepts of Computer Science, including abstraction, decomposition, logic,					
	algorithms, and data representation • analyse problems in computational terms through practical experience of solving such problems, including designing, writing and debugging programs					
	<ul> <li>think creatively, innovatively, analytically, logically and critically</li> <li>understand the components that make up digital systems, and how they communicate with one another and with other systems</li> <li>understand the impacts of digital technology to the individual and to wider society</li> <li>apply mathematical skills relevant to Computer Science</li> </ul>					
OCR J277:						
OCK 3277.		Term 2:	Term 3			
	Term 1:	Term 2.	Term 5			
	1.4 Network security	2.1 Algorithms	2.1 Algorithms			
	• 1.5 Systems software	2.2 Programming fundamentals	2.2 Programming fundamentals			
	1.6 Ethical, legal, cultural and					
Topic Titles (in	environmental impacts of digital					
order of delivery)	technology • 2.3 Producing robust programs					
	<ul> <li>2.5 Producing robust programs</li> <li>2.5 Programming languages and Integrated</li> </ul>					
	Development Environments					
Key knowledge / Retrieval topics	23.5.5	1.1 Systems architecture	1.2 Memory and storage			
		,	1.3 Computer networks, connections			
			and protocols			
			• 1.4 Network security			
			2.4 Boolean logic			
Understanding / Sequence of delivery	1.4.1 Threats to computer systems and networks	1.1.1 Architecture of the CPU	1.2.3 Units			
			1.3.1 Networks and topologies			
	1.4.2 Identifying and preventing vulnerabilities	1.1.2 CPU performance 1.1.3 Embedded systems	1.4.2 Identifying and preventing vulnerabilities			
	1.5.1 Operating systems	2.1.1 Computational thinking	2.1.2 Designing, creating and refining algorithms			
	1.5.2 Utility software	2.1.2 Designing, creating and refining algorithms	2.2.3 Additional programming techniques			
	1.6.1 Ethical, legal, cultural and environmental impact	2.1.3 Searching and sorting algorithms	2.4.1 Boolean logic			
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	2.3.1 Defensive design	2.2.1 Programming fundamentals				
	2.3.2 Testing	2.2.2 Data types				
	2.5.1 Languages					

	2.5.2 The Integrated Development Environment (IDE)		
Assessments	End of Topic Tests	CAT	End of Topic Tests PPE