

CURRICULUM MAP: *Computer Science*

“We believe that every one of our students, regardless of background, is entitled to encounter the best that has been thought, said and done through a broad and ambitious curriculum.”

	TERM 1	TERM 2	TERM 3	TERM 4	TERM 5	TERM 6
Year 11 Units	OCR J277 Unit 2	2.3 Producing Robust Programs	2.4 Boolean Logic Programming Code	OCR J277 Unit 1 Revision	OCR J277 Unit 1 & 2 Exam Prep	N/A
Key concepts	2.2 Programming Fundamentals	Program Design and Testing	Boolean Logic and implementing code	Revise Computer Systems	Preparing to take the exams	
Builds on	Unit 1 Computer Systems	Programming Fundamentals	Program Design and Testing	Year 10 learning	Mock exams	
Leads to	Robust Programming	Boolean Logic	Coding using an IDE	Programming Revision	GCSE Computer Science	
Year 10 Units	OCR J277 Unit 1	1.2 Memory & Storage	1.3 & 1.4 Computer Networks & Security	1.5 Systems Software	1.6 Ethical Legal Cultural Environmental Impacts	1.7 Algorithms
Key concepts	1.1 Systems Architecture	Systems data stores	Network design, components, and security	Software applications and utility	Computer Misuse, Data Protection, Copyright & Designs	Using algorithms
Builds on	KS3 Computer Science	CPU architecture	Computer Hardware	Networks and Internet	Computer Ethics	Basic programming
Leads to		Networking	Computer Software	Impact of computers	Programming	Advanced programming
Year 9 Units	Data Modelling	Cyber Security	Data Science	3D Drawing	Computer Programming	More Programming
Key concepts	Using Spreadsheets	Understanding Online Threats	Visualising Data	3D design and animation	Using the Python IDE	Program Design and Testing
Builds on	Numbers (Maths)	Online Safety	Spreadsheet Modeling	Art and Design Technology	Programming with Scratch	Basic programming
Leads to	Data Science	Ethical, Legal, Computer Law	Effectively using Information	Game design and programming	Advanced use of programming	GCSE Computer Science
Year 8 Units						
Key concepts						
Builds on						
Leads to						
Year 7 Units						
Key concepts						
Builds on						
Leads to						