

Computer Science Department

Key Stage 3 Curriculum Overview - Year 8 - 9

	Autumn 1 (rotation 1)	Autumn 2 (rotation 1)	Spring 1 (rotation 1)	Spring 2 (rotation 2)	Summer 1 (rotation 2)	Summer 2 (rotation 2)
YEAR 8	 Computer systems and hardware The safe and effective use of computers Using the Microsoft Office suite 	 Binary conversion and units Programming fundamentals – how to use the 'print' function in Python 	 Programming fundamentals – variables and data types Programming fundamentals – user input Programming if statements 	 Computer systems and hardware. The safe and effective use of computers Using the Microsoft Office suite 	 Binary conversion and units Programming fundamentals – how to use the 'print' function in Python 	 Programming fundamentals variables and data types Programming fundamentals user input Programming if statements
YEAR 9	 Computer systems and hardware The safe and effective use of computers Using the Microsoft Office suite 	 Binary conversion and units Programming fundamentals – how to use the 'print' function in Python 	 Programming fundamentals – variables and data types Programming fundamentals – user input Programming if statements 	 Computer systems and hardware. The safe and effective use of computers Using the Microsoft Office suite 	 Binary conversion and units Programming fundamentals – how to use the 'print' function in Python 	 Programming fundamentals variables and data types Programming fundamentals user input Programming if statements



Key Stage 4 Curriculum Overview - Year 10 - 11

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
YEAR 10 OCR	 Computer systems CPU and memory Binary conversion Programming sequence and selection 	 Binary shift and binary addition Logic gates Programming – data types and operators Programming – string handling Programming - iteration 	 Primary memory Secondary storage Representation of sound Programming iteration 	 Representation of image Representation of characters and text Hexadecimal Programming arrays Programming file handling 	 System software Introduction to networks Networks (topologies, hardware, protocols, threats) Programming sub programs 	 Ethical, legal and cultural issues Computer legislation Programming 2D arrays Defensive design SQL
YEAR 11 OCR	 CPU including registers Binary operations Programming recap - Sequence, selection, iteration 	 Primary memory Secondary storage Representation of sound Logic circuits Programming lists, file handling and sub programs 	 Representation of image Representation of characters and text Hexadecimal Systems Software Programming errors, pseudocode and translators 	 Networks (topologies, hardware, protocols, threats) Ethical, legal and cultural issues Computer legislation Defensive design SQL 	Revision and exam practice	