

EXCELLENCE | CARE | PARTNERSHIP

KS4 Curriculum overview: COMPUTER SCIENCE

Year 10 Curriculum Map

Autumn Term	Spring Term	Summer Term
Programming skills	Programming skills	Programming skills
Recap of basic Python coding	Use of sub programs	The use of SQL to search for data
 Inputs and outputs 	• functions	Project practice papers
• Variables	 procedures 	
• Selection		Theory
Iteration	Arrays/Lists	Memory
 The use of data types 	one dimensional	Storage
	 two dimensional 	Wired and wireless networks
Basic string manipulation		
File handling (Text and CSV files)	Theory	
• Open	Data representation	
• Read	• Images	
• Write	Sound	
• close Algorithms	Compression	
 sorting and searching 		
• Flow charts	Computational Logic	
• Pseudo code	Translators and facilities of Languages	
	Systems Architecture	
Theory		
Algorithms		
• sorting and searching		
• Flow charts		
• Pseudo code		
Data representation		
• Units		

• Numbers • characters	
characters	

Year 11 Curriculum Map

Autumn Term	Spring Term	Summer Term
Programming skills	Programming skills	Revision
Recap on:		
 Functions and procedures 	Programming project	
• Selection		
Iteration	Theory	
• File handling	Ethical legal, cultural and environmental concerns	
• String Handling	Producing robust programs	
Programming project (After October half term)		
Theory		
Network topologies, protocols and layers		
System		
Security System Software		