The Quality of Education:

Computing and Business - Curriculum Map



St Christopher's: A Church of England Academy

Key Stage 3: Computer Science

Year	Half-term 1	Half-term 2	Half-term 3	Half-term 4	Half-term 5	Half-term 6
7 x2 lessons per fortnight	Impact of technology - Collaborating online respectfully	Modelling data – Spreadsheets	Networks from semaphores to the Internet	Programming essentials in Scratch – part I	Programming essentials in Scratch – part II	Using media – Gaining support for a cause
	Summative assessment	Summative assessment/ practical	Summative assessment		Summative assessment	Summative assessment
8 x2 lessons per fortnight	Computing systems	Developing for the web	Introduction to Python programming	Media – Vector graphics	Mobile app development	Representations – from clay to silicon
per recongre	Summative assessment	Summative assessment	Summative assessment	Summative assessment	Summative assessment	Summative assessment
9 x2 lessons per fortnight	Cybersecurity	Data science	Media – Animations	Physical computing	Python programming with sequences of data	Representations – going audio-visual
	Summative assessment	Summative assessment	Summative assessment	Summative assessment	Summative assessment	Summative assessment

Key Stage 4: Computer Science

Year	Half-term 1	Half-term 2	Half-term 3	Half-term 4	Half-term 5	Half-term 6
10 x5 lessons	Introduction to course	SLR 1.3 Storage	SLR 1.5 Network topologies, protocols and	SLR 1.6 System security	SLR 2.1 Algorithms	SLR 2.4 Computational logic
per fortnight	SLR 1.1 Systems architecture	SLR 1.4 Wired and wireless networks	layers	SLR 1.7 Systems software	Python practical's interweave	SLR 2.5 Translators and
	SLR 1.2 Memory	Python practical	Python practical			facilities of languages
	Intro to Python					
	End of unit Assessment	End of unit Assessment	End of unit Assessment	End of unit Assessment	End of unit Assessment	
11 x5 lessons per fortnight	SLR 2.6 Data representation	NEA Hours 1-7 Extended programming practice	NEA Hours 8-20 Catch up time and padding	SLR 2.2 Programming fundamentals	SLR 1.8 Ethical, legal, cultural and environmental concerns	
	End of unit Assessment			SLR 2.3 Producing robust programs	Extended writing	
	PPE preparation	PPE preparation	PPE	End of unit Assessment	Exam practice	

Key Stage 4: Business

Year	Half-term 1	Half-term 2	Half-term 3	Half-term 4	Half-term 5	Half-term 6
10 x5 lessons per fortnight	1 Business Activity	2 Influence on Business	3 Business Operations	4 Business Finance (1)	5 Marketing (1)	5 Marketing (1)
	Diagnostic & summative assessment	Diagnostic & summative assessment	Diagnostic & summative assessment	Diagnostic & summative assessment	Diagnostic & summative assessment	Y10 PPE
11 x5 lessons per fortnight	4 Business Finance (2) Diagnostic & summative	6 Human Resources (1) Y11 PPE	6 Human Resources (2) Diagnostic & summative	The interdependent nature of business	Exam preparation	
	assessment		assessment	Exam preparation, extended writing practice		

Key Stage 5: Computer Science

Year	Half-term 1	Half-term 2	Half-term 3	Half-term 4	Half-term 5	Half-term 6
12 x9 lessons per fortnight	 1.5.2 Moral and ethical Issues 2.2.1 Programming techniques 2.1 Elements of computational thinking 2.2.2 Computational methods are analysed here 	1.1.1 Structure and function of the processor 1.1.2 Types of processor 1.1.3 Input, output and storage Practical programming LMC prt I	 1.2.1 Systems Software 1.2.2 Applications Generation 1.2.4 Types of Programming Language Practical programming LMC prt II 2.1 (ct) 2.2.1 (pt) 2.2.2 (cm) Assessment written 	1.4.1 Data Types 1.4.2 Data Structures Assessment written	1.4.3 Boolean Algebra 1.4.2 Data Structures Assessment written	1.4.2 Data Structures2.3.1 Algorithms prt I2.2.1 Programmingtechniques2.2.2 (cm)
	written					
13 x9 lessons per fortnight	 3.1 Analysis (2 lpr) 1.2.3 Software Development (Methodologies) 2.3.1 Algorithms II (Big 0) 1.3.1 Compression, Encryption and Hashing 1.3.3 Networks 1.3.4 Web Technologies 	 3.1 Design (2 lpr) 1.2.3 Software Development (Methodologies) 2.3.1 Algorithms III 2.2.2 (cm) 1.3.2 Databases 	3.1 Development / Testing (2 lpr) 1.2.3 Software Development (Methodologies) 2.2.1 Programming techniques (OO) 1.2.4 Types of Programming Language (e)	 3.4 Evaluation (2 lpr) 1.2.3 Software Development (Methodologies) 1.5.1 Legal, moral, cultural and ethical issues 1.5.2 Moral and ethical Issues 	 1.5.2 Computer-related legislation Revision 3.0 NEA completion 1.2.3 Software Development (Methodologies) Independent use of Mock examinations series 	
	Assessment written	Assessment written	Assessment written	Exam Preparation	Exam Preparation	