Computer Science Curriculum Map – Key Stage 3			
	Year 7	Year 8	Year 9
Autumn-	Digital media & E-Safety	Computer Systems	Cyber security
1	Navigating school computer system	Online safety Consultations of computing systems.	Data, information and risks
	Internet SafetyWeb browsers & using email software	General purpose of computing systemsComputer hardware components	How to protect personal information Managing devices and assemble
	_		Managing devices and accountsIdentifying scams and sources of support
A	Poster making in Microsoft PowerPoint	Input and output devices	. 5
Autumn-	Networks and internet	Computer Systems	Cyber security
2	Computer networks	How hardware works to execute	Hacking
	• Protocols	programs	Malware
	Networking hardware	Function of operating systems	Security in organisations
	 Wired and wireless networks 	Decomposition	Preventing cyber attacks
	Internet	Writing algorithms with flowcharts	
Spring-1	Networks and the internet	Python programming	Data representation
	 Internet services 	 Programs and algorithm 	 Units of storage
	 World Wide Web 	 Assignments 	 Representing images with pixels
	Modelling data - Excel	Python syntax	 Representing colours in images
	 Spreadsheet features & basic formulae 		 Presenting size of images
Spring-2	Modelling data - Excel	Python programming	Representing sound as binary
	 Collecting data 	 Writing arithmetic & logical expressions 	 Representing sound size
	 Applying SUM, MIN, MAX, COUNTA 	 Coding simple programs 	Sound manipulation
	 Data analysis and sorting 	 Relational operators 	 Compression
Summer-	Using media to gain support for a cause	Python programming and representation	Programming - Further programming
1	 Features of a word processor 	 Using if statements to create conditions 	techniques in python
	 Formatting documents 	Representation	Selection and randomness
	 Licensing and copyright 	 Introduction to representation 	Multi-branch selection
	 Credibility of sources 	Binary digits	Using iteration
		 Converting decimals into binary 	
Summer-	Using media to gain support for a cause	Representation	Data science
2	 Research and blog planning 	 Bits and bytes conversion 	Delving into data science
	 Promoting and presenting a cause 	Turing's mug	Visualising data
			Global data