KENTON SCHOOL LEARNING JOURNEY – COMPUTER SCIENCE



	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Year 7	Computer Basics & Software		Computer Hardware		Scratch Programming	
	The basics of computer use (logins, documents,		The function/parts of the processor and		An introduction to a wider range of	
	folders etc) along with the function of different		the function of the different memory and		programming tools in Scratch (including a	
	software types, the legal/ethical issues of		storage devices along with the basics of		presentation of a program in PowerPoint).	
	Computing and the methods for ensuring		networking.			
	online	e safety.				
Year 8	Web Development & Representation		Logic & Python Basics		Python Basics	
	The planning and creation of a multi-page		The creation of logical circuits followed by		Continued examination of basic input/output	
	website based on a project brief followed by		an introduction to basic input/output		programs in Python and conversion of	
	digital storage of numbers, text, and images.		programs in Python.		algorithms between Python and flowcharts.	
Year 9	Python Programming		Networking		Algorithms & Web Development	
	An introduction to a wider range of		The structure and function of network		The function of basic searching/sorting	
	programming tools in Python.		types and devices along with the basics of		algorithms followed by the planning and	
			network security/online safety and digital		creation of a multi-page website based on a	
			law.		project brief.	
Year 10	Programming	Programming	Algorithms &	Processing,	Data Representation	PPE Preparation &
	Techniques	Techniques	Robust Programs	Memory & Storage	& Revision	Programming Project
	The elements of	An introduction to a	Standard searching	The function/parts	The digital storage of	Revisions lessons for
	problem solving and	wider range of	and sorting	of the processor	numbers, text,	the Y10 PPE exams and
	an introduction to	programming tools in	algorithms and	and the function of	images and sound	the development and
	sequence	Python and SQL.	testing tools to	the different	along with the	testing of a Python
	programming in		assist in the creation	memory and	different number	solution.
	Python		of robust programs.	storage devices.	systems used.	Y10 PPE

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Year 11	Networking	Software & Ethics	Boolean Logic &	Paper 2 Revision	Paper 1 Revision	Y11 Examinations
	The structure and	The function of	Paper 2 Revision	Revision lessons for	Revision lessons for	
	function of network	different software	The function and	GCSE Paper 2	GCSE Paper 1	
	types and devices	types and	combination of	including walking-	including walking-	
	along with the	programming tools and	Boolean logic gates	talking mock	talking mock lessons.	
	foundations of the	the legal/ethical issues	and revision lessons	lessons.		
	Internet and network	of Computing.	for GCSE Paper 2.	<mark>Y11 PPE 2</mark>		
	security.	<mark>Y11 PPE 1</mark>				
Year 12	Computational	Programming	Language Types &	Data Types &	Hardware & Logic	Databases & the
	Thinking	Techniques &	Data Structures	Arithmetic	The function of the	Project
	The elements of	Algorithms	A comparison of the	The different	processor and a	An introduction to
	computational	An introduction to a	different types of	number systems	range of	database tools and the
	thinking and an	wider range of	programming	used in Computing	memory/storage	SQL language and an
	introduction to a	programming tools in	language and	(binary etc) along	devices and the	introduction to the
	range of	Python and the	abstract structure	with basic	purpose/use of	requirements of the
	programming	standard	for data storage.	arithmetic in those	Boolean logic	Computing project.
	techniques.	searching/sorting		systems.	circuits.	Y12 PPE
		algorithms.				
Year 13	Networks	Software	Application	Paper 2 Revision	Paper 1 Revision	Y13 Examinations
	The function and	The function of	Generation & Ethics	Revision lessons for	Revision lessons for	
	components of	different software	The function of a	GCE Paper 2	GCE Paper 1	
	networks along with	types and the differing	range of	including walking-	including walking-	
	an introduction to	methodologies used	programming tools	talking mock	talking mock lessons.	
	the function of the	when developing	and the legal/ethical	lessons.		
	Internet and basic	software.	issues of Computing.	Y13 PPE 2		
	HTML programming.	<mark>Y13 PPE 1</mark>				