

## **Curriculum Sequencing Overview - Computer Science Year 10 2023-24**

Week	1	2	3	4	5	6	7	8
Unit Theme and	Course intro and t	the Central	Computer Memoi	ry	Computer Storage	9	Units of data	
	Processing Unit							
Knowledge/								
Skills		Γ		T		Τ		
	1. Into course.	5. Programming	6. CPU	10.	11. Secondary	2. Programming	3. units	7. Programming
	Hand out Useful	in Python	performance T2	Programming in	storage T4	in Python		in Python
	resources.		7 KA4 CDU	Python	12 Cocondom		4 Data starrage	
	Folder set up. Intro to Python		7 KA1 CPU Architecture &		12. Secondary		4. Data storage	
	ilitio to Python		performance		storage T4			
	2. 1.1.1		Embedded		13. End of Unit		5. Data storage -	
	Architecture of		systems		test - Systems		characters	
	the CPU T1		3,000		architecture and			
Content			8. Primary		Storage			
	3. Architecture		storage		, and the second		6. Data storage -	
	of the CPU T1		(Memory) T3		1. Units		characters	
	4. CPU							
	performance T2		9. Primary					
			storage					
			(Memory) T3					
			KA 1 CPU		End of topic1			
			Architecture &		assessment			
Key			performance		Systems			
Assessments					architecture and			
					Storage			



Week	9	10	11	12	13	14	15	16
Unit Theme and Assessed Knowledge/ Skills	Storage images & sound		Network LANs and WANs		Client server networks		Network protocols and layers	
Lesson Topics Sequence & Content	8. KA 3 data storage and characters 10 Qs. Data storage- images  9. Data storage-images  10. Data storage-sound  11. Data storage- sound	12. Programming in Python	13. Compression  14. Data Representation End of Topic 2 assessment  1. Networks Internet and WANs  2. Networks LANS	3. Programming in Python	4. Networks Wireless networking  5. KA 4 Networks LANs and WANs Networks Client server & P2P  6. Networks Client server & P2P  7. Christmas PyGame coding	8. Programming in Python	9. Network Standards Protocols & Layers  10. Network Standards Protocols & Layers  11. Networks Connections & Protocols End of Topic assessment  1. Network threats	2. Programming in Python
Key Assessments	KA 3 Data storage		End of topic 2 Data representation		KA 4 Network LANs and WANs		End of Topic assessment	



Week	17	18	19	20	21	22	23	24	
Unit Theme and Assessed Knowledge/ Skills	Operating system software	Operating systems and utility software		Programming fundamentals		Programming iteration		Programming Arrays	
	3. Preventing vulnerabilities	8. Programming in Python	9. Networks revision	3. Programming in Python	4. Sequence & selection 1	8. Iteration While loops	9. Iteration For loops	13. Arrays	
	4. Operating Systems		10. Networks Security End of Topic assessment		5. Sequence & selection 2		10. Iteration For loops		
Lesson Topics Sequence & Content	6. Utility software		Programming fundamentals		6. KA 6 Sequence & selection iteration		11. Arrays		
	7. KA 5 Network threats Utility software		2. Programming fundamentals		worksheet  7. Iteration while loops		12. KA 7 For and while loops		
Key Assessments	KA5 Network threats and prevention		Networks Security End of Topic assessment		KA 6 Sequence & selection		KA 7 For and while loops		



Week	25	26	27	28	29	30	31	32
Unit Theme and	Programming Functions and		Ethics and cultural issues			Interleaved learning of earlier topics		
Assessed	Procedures							
Knowledge/								
Skills								
	14. Procedures	18. SQL	19. SQL	3. Legislation &	7. Ethical &	8. Interleaved CPU	12. Interleaved	13. Interleaved
	& Functions 1			privacy	Environmental	Architecture &	Images sound	LANs, WANs and
					End of unit	performance	and	Typologies
			20. End of Topic		test		compression	
	15. Procedures		assessment	4. Exam practice				
	& Functions 2			on Ethical &		9. Interleaved		14. Interleaved
				Environmental		Computer		Wireless
			1. Ethical &			memory		networking and
Lesson Topics	16. Records &		cultural issues					P2P networks
Sequence &	Files			5. Closing the				
Content				loop long		10. Interleaved		
			2.Environmental	answer		Computer Storage		15. Network
	17. Records &		issues	questions				protocols &
	Files							layers
						11. Interleaved		
				6. Ethical and		Binary conversion		
				environmental				16. Network
				deeper thinking				threats and
								prevention
	KA 8 Functions		End of Topic		Ethical &			
Key	& Procedures		assessment		Environmental			
Assessments					End of unit			
Assessifients					test			



Week	33	34	35	36	37	38	39
Unit Theme and Assessed Knowledge/ Skills	Mock prep	Mock exams		Programming recap			End of Term
Lesson Topics Sequence & Content	17. Mock practice 1  18. Mock practice 2  19. Mock practice 3  20. Mock practice 4	Mock Exams  Uninterrupted lessons will focus on revision.	Mock Exams  Uninterrupted lessons will focus on revision.	1. Programming task recap basics	1. Practical programming  2. Practical programming  3. Practical programming  4. Practical programming	1. Programming escape room	Extra-curricular activities
Key Assessments	Revise all	Y10 Mock Exams	– Full Paper 1				