Subject:	Learning Query / Topic:	ng Query / Topic: Computer networks, connections and protocols / Network security						
	8 Jan 2023	15 Jan 2023	22 Jan 2023	29 Jan 2023	5 Feb 2023	12 Feb 2023		
Learning Question	Recap and assessment System architecture Memory and storage: Units of data storage Data representation Programming	The different roles of computers in a client-server and peer-to-peer network The hardware required to connect standalone computers to a LAN: Wireless access points, routers, switches, NIC, transmission media Programming	The internet as a worldwide collection of computer networks: DNS, hosting, the cloud, web servers and clients Star and mesh network topologies Programming	Modes of connection: Wired (Ethernet), wireless (Wi-Fi, Bluetooth) Encryption Programming	IP and MAC addressing Standards Programming	Common protocols: TCP/IP, HTTP, HTTPS, FTP, POP, IMAP, SMTP The concept of layers Programming		
Homework	Smart Revise	Smart Revise	Smart Revise	Smart Revise	Smart Revise	Smart Revise		
Key Vocabulary	Bit Nibble Byte Binary Denary Hexadecimal	Switch Router LAN WAN	Topology Switch Router Cloud DNS	Wireless Bluetooth Ethernet	IP address MAC address	Protocols		
Absenteeism / Isolation / Stretch & Challenge	All resources and programming tutorials are located in Teams Files and within OneNote (Content Library / student section)	All resources and programming tutorials are located in Teams Files and within OneNote (Content Library / student section)	All resources and programming tutorials are located in Teams Files and within OneNote (Content Library / student section)	All resources and programming tutorials are located in Teams Files and within OneNote (Content Library / student section)	All resources and programming tutorials are located in Teams Files and within OneNote (Content Library / student section)	All resources and programming tutorials are located in Teams Files and within OneNote (Content Library / student section)		
Recommended reading	All resources (reading materials) and tutorials are located in Teams Files and class OneNote. Additional reading is posted in Teams general channel. Craig 'n' Dave videos for SLR 1.3							

Knowledge
Organiser Link

Knowledge Organisers are located in the Content Library of the class OneNote Notebook

Curriculum Overview 2023/24: Term 3

Year:	1
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Subject:	Learning Query / Topic: Exam revision and topic recap						
	8 Jan 2023	15 Jan 2023	22 Jan 2023	29 Jan 2023	5 Feb 2023	12 Feb 2023	
Learning Question	Exam revision and topic recap	Exam revision and topic recap	Exam revision and topic recap	Exam revision and topic recap	Exam revision and topic recap	Exam revision and topic recap	
	Systems architecture	Systems architecture	Memory and storage	Memory and storage	Computer networks, connections and	Computer networks, connections and	
	Pseudocode, flow	Pseudocode, flow	Pseudocode, flow	Pseudocode, flow	protocols	protocols	
	diagrams and programming	diagrams and programming	diagrams and programming	diagrams and programming	Pseudocode, flow	Pseudocode, flow	
	algorithms (exam condition concepts)	algorithms (exam condition concepts)	algorithms (exam condition concepts)	algorithms (exam condition concepts)	diagrams and programming algorithms (exam	diagrams and programming algorithms (exam	
					condition concepts)	condition concepts)	
Homework	Smart Revise	Smart Revise	Smart Revise	Smart Revise	Smart Revise	Smart Revise	
Key	CPU	Virtual memory	Bit	Bit	Switch	IP address	
Vocabulary	ALU	Secondary storage	Nibble	Nibble	Router	MAC address	
	CU Registers MAR MDR	Magnetic Solid state	Byte Binary	Byte Binary	LAN WAN	Protocols	
	CIR, PC, ACC	Optical	Denary	Denary	Topology		
	Cache	Optical	Hexadecimal	Hexadecimal	Switch		
	RAM				Router		
	ROM				Cloud		
					DNS		

Absenteeism /	All resources and	All resources and	All resources and	All resources and	All resources and	All resources and		
Isolation /	programming tutorials	programming tutorials	programming tutorials	programming tutorials	programming tutorials	programming tutorials		
Stretch &	are located in Teams	are located in Teams	are located in Teams	are located in Teams	are located in Teams	are located in Teams		
Challenge	Files and within	Files and within	Files and within	Files and within	Files and within	Files and within		
	OneNote (Content	OneNote (Content	OneNote (Content	OneNote (Content	OneNote (Content	OneNote (Content		
	Library / student	Library / student	Library / student	Library / student	Library / student	Library / student		
	section)	section)	section)	section)	section)	section)		
Recommended	All resources (reading materials) and tutorials are located in Teams Files and class OneNote.							
reading	Additional reading is posted in Teams general channel.							
	Craig 'n' Dave videos for SLR 1.1							
	Craig 'n' Dave videos for SLR 1.2							
	Craig 'n' Dave videos for SLR 1.3							
Knowledge	Knowledge Organisers are located in the Content Library of the class OneNote Notebook							
Organiser Link								

Year: 12/13

Curriculum Overview 2023/24: Term 3

Learning Query / Topic: Exam revision and Project						
5 Feb 2023	12 Feb 2023					
Exam prep	Exam prep					
Stacks and queues	Trees					
Project	Hash tables					
	Project					
Smart Pavisa	Smart Revise					
Project	Project					
	mart Revise roject					

Key	2s compliment	Mantissa	Bitwise	Graphs	Push	Trees		
Vocabulary	Sign	exponent	Mask	Nodes	Рор	Nodes		
	magnitude			Directed	Enqueue	Leaf		
					Dequeue	Root		
Absenteeism /	All resources and	All resources and	All resources and	All resources and	All resources and	All resources and		
Isolation /	programming tutorials	programming tutorials	programming tutorials	programming tutorials	programming tutorials	programming tutorials		
Stretch &	are located in Teams	are located in Teams	are located in Teams	are located in Teams	are located in Teams	are located in Teams		
Challenge	Files and within	Files and within	Files and within	Files and within	Files and within	Files and within		
	OneNote (Content	OneNote (Content	OneNote (Content	OneNote (Content	OneNote (Content	OneNote (Content		
	Library / student	Library / student	Library / student	Library / student	Library / student	Library / student		
	section)	section)	section)	section)	section)	section)		
Recommended	All resources (reading me	aterials) and tutorials are l	ocated in Teams Files and	class OneNote.				
reading	Additional reading is posted in Teams general channel.							
	OCR A level (H046-H446) free Craig 'n' Dave (craigndave.org)							
	OCR A level (H046-H446) Videos – Craig 'n' Dave Students (craigndave.org)							
Knowledge	Knowledge Organisers a	Knowledge Organisers are located in the Content Library of the class OneNote Notebook						
Organiser Link								