

Subject:	Learning 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
<b>Learning Question</b>	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
<b>Homework</b>	<i>Smart Revise</i>	<i>Smart Revise</i>	<i>Smart Revise</i>	<i>Smart Revise</i>	<i>Smart Revise</i>	<i>Smart Revise</i>
<b>Key Vocabulary</b>	<i>Bit Nibble Byte Binary Denary Hexadecimal</i>	<i>Switch Router LAN WAN</i>	<i>Topology Switch Router Cloud DNS</i>	<i>Wireless Bluetooth Ethernet</i>	<i>IP address MAC address</i>	<i>Protocols</i>
<b>Absenteeism / Isolation / Stretch &amp; Challenge</b>	<i>All resources and programming tutorials are located in Teams Files and within OneNote (Content Library / student section)</i>	<i>All resources and programming tutorials are located in Teams Files and within OneNote (Content Library / student section)</i>	<i>All resources and programming tutorials are located in Teams Files and within OneNote (Content Library / student section)</i>	<i>All resources and programming tutorials are located in Teams Files and within OneNote (Content Library / student section)</i>	<i>All resources and programming tutorials are located in Teams Files and within OneNote (Content Library / student section)</i>	<i>All resources and programming tutorials are located in Teams Files and within OneNote (Content Library / student section)</i>
<b>Recommended reading</b>	<i>All resources (reading materials) and tutorials are located in Teams Files and class OneNote. Additional reading is posted in Teams general channel. <a href="#">Craig 'n' Dave videos for SLR 1.3</a></i>					

<b>Knowledge Organiser Link</b>	<i>Knowledge Organisers are located in the Content Library of the class OneNote Notebook</i>
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### Curriculum Overview 2023/24: Term 3

**Year: 11**

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



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