YEAR 11 GCSE ROADMAP
Computer Science

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GCSE EXAMINATION SCHEDULE

DATE	AM/PM	DURATION	CONTENT
13/05/19	AM	1 HR 30 mins	Paper 1: Computer Systems
16/05/19	PM	1 Hr 30 Mins	Paper 2: Computational Thinking

KEY DATES
(e.g. mock exams, controlled assessment deadlines, residential trips, revision days, etc)

31/03/19 – Deadline for NEA

RESOURCES & REVISION GUIDELINES

ESSENTIAL RESOURCES (Inc. Reading, websites & e-resources)	KEY REVISION GUIDELINES
CGP Revision Guide http://www.teach-ict.com/2016/GCSE_Computing/OCR_J276/OCR_J276_home.html	• Read a section in the revision guide – then complete the relevant page in the workbook. • Make a mind map for each topic area. • Answer the exam style questions for each topic area on teach -ict and in the revision guide.

TEACHING OUTLINE

W/C	CONTENT	HOMEWORK	READING
14.01.19	**1.1. COMPUTER SYSTEMS** • Embedded systems & Input, output, processing, storage **VON NEUMANN ARCHITECTURE** • MAR & MDR, Program Counter & Accumulator	• Page 4 in workbook • Exam questions • Page 5 in workbook	Section 1.1 teach ICT Page 1 in revision guide Page 3 in revision guide
21.01.19	**FETCH-DECODE-EXECUTE CYCLE** • Registers involved & Fetch, decode, execute cycle **CPU PERFORMANCE FACTORS** • Clock speed, Multi-core processors, Cache, RAM & Graphics GPU	• Page 6 in workbook • Page 8 in workbook • Focussed exam questions	Section 1.1 teach ICT Page 3 in revision guide Page 2 and 5 in revision guide
28.01.19	**1.2 MEMORY TYPES** • Main memory, Volatile memory - what is it?, RAM, DRAM, SRAM, ROM & Virtual memory	• Page 7 in workbook • Focussed exam questions	Section 1.2 teach ICT Page 4 in revision guide
04.02.19	**1.3 STORAGE** • Secondary storage, Storage media & devices, Magnetic storage, Optical storage & Solid- state media	• Page 9 and 10 in workbook • Focussed exam questions	Section 1.3 teach ICT Page 6 & 7 in revision guide
11.02.19	**1.3 STORAGE CONTINUED** • Data capacity & Calculating storage	• Page 76 in workbook	Section 1.3 teach ICT Page 73 in revision guide REVISION QUESTIONS Pg.12
18.02.19	Half Term		
25.02.19	**1.4 WIFI & WIRED NETWORKS** • Types of network, What is a network, Home networks, Business networks, LANs & WANs	• Page 17 in workbook • Focussed exam questions	Section 1.4 teach ICT Page 13 in revision guide
04.03.19	**PERFORMANCE OF NETWORKS** • Bandwidth, Wired performance, Bands and channels, Wi-Fi performance, Error rate & Latency	• Page 17 in workbook	Section 1.4 teach ICT Page 13 in revision guide
11.03.19	**NETWORK HARDWARE/PEER TO PEER/ CLIENT-SERVER** •NIC, Hub, Switch, Router, Cables, WAP and Wi-Fi	• Pages 18 and 19 in workbook	Section 1.4 teach ICT Pages 14 and 15 in revision guide
18.03.19	**VIRTUAL NETWORKS/STANDARD NETWORKS** • DNS/IP addressing, ISP, URL, IP address, DNS, Web sites, Local hosting, External hosting, The Cloud	• Page 22 and 24 in workbook	Section 1.4 teach ICT Page 17 in revision guide
25.03.19	**1.5 NETWORKS** • Topologies, Star network, Mesh network, Network protocols, Protocols, TCP/IP, HTTP / HTTPs, FTP, POP, IMAP, SMTP, Ethernet and The four-layer model	• Pages 20-21 in workbook • Focussed exam questions • Page 22 -23 in workbook • Exam questions	Section 1.5 teach ICT Page 16 in revision guide Section 1.5 teach ICT Pages 17-19 in revision guide
01.04.19	**1.7 SYSTEM SOFTWARE** • System software & Utility software	• Page 11 in workbook • EXAM PAPERS	Section 1.7 teach ICT Page 9 in revision guide REVISION QUESTIONS P24 REVISION GUIDE
08.04.19	Easter Break		
15.04.19			
22.04.19	2.1 Algorithms & Exam papers	Page 41-46 in workbooks EXAM PAPERS	Section 2.1 teach ICT Pages 34-39 in revision guide
29.04.19	2.6 Data representation & Exam Papers	Own focused revision Page 76-84 in workbook EXAM PAPERS	Section 2.6 teach ICT Pages 66-75 in revision guide
06.05.19	2.4/2.5 Computational Logic/Translators & Exam Papers	Own focused revision Pages 74-75 in workbook EXAM PAPERS	Section 2.4 teach ICT Pages 64-65 in revision guide
13.05.19	**EXAMS BEGIN**		
20.05.19	**EXAMS**		
27.05.19	Half Term		