OCR GCSE COMPUTER SCIENCE REVISION

- Try to revise Computer Science for between 20 minutes and an hour each day
- Make sure your revision is active: practise remembering things by answering questions or doing quizzes.
- If you are reading/watching: make summary notes/mindmaps and try to recall them once you've finished.

==After School Revision== - **Every Wednesday in A2** during term time**.** Turn up with a list of things you want help with.

Resources

Clickschool	Craig and Dave	BBC Bitesize OCR	Knowledge Organisers	Exams + Analysis
www.clickschool.co.uk	tinyurl.com/canddvids	tinyurl.com/bbcocrrev	https://tinyurl.com/CSKO22	https://tinyurl.com/PCSPP22

Suggested Revision Schedule – *You will be following directed revision in class as well. This plan is for people who have not started revision yet and only covers the core elements of the course. Not everything!*

MARCH

14/3/22	Mon	Binary units (bit, nibble, byte, kilobyte,megabyte,gigabyte,terabyte,petabyte)	
15/3/22	Tue	Storage types (Optical, Magnetic, Solid State)	
16/3/22	Wed	Primary Storage (RAM and ROM, What is the difference? What are they for?)	
17/3/22	Thu	Virtual Memory	
18/3/22	Fri	Binary to denary conversions	
19/3/22	Sat	Denary to binary conversions	
20/3/22	Sun	Hexadecimal to binary conversions	
21/3/22	Mon	Character sets (How they work + Ascii and Unicode)	
22/3/22	Tue	Digital images (pixels, resolution, colour depth)	
23/3/22	Wed	Calculating file sizes (images and text)	
24/3/22	Thu	Binary addition and shifts	
25/3/22	Fri	Pseudocode and flowcharts	
26/3/22	Sat	Trace Tables	
27/3/22	Sun	SQL – SELECT Statements	
28/3/22	Mon	Data Representation Past Paper Questions	
29/3/22	Tue	Network Threats – Malware (Virus, Worm, Trojan, Spyware, Ransomware)	
30/3/22	Wed	Network Threats – Social Engineering (Phishing, Blagging, Pharming, Shoulder Surfing)	
31/3/22	Thu	DDOS and SQL Injection	

APRIL

1/4/22	Fri	Prevention methods – Antimalware and Firewall	
2/4/22	Sat	Prevention methods – Passwords, User Access Levels and Encryption	
3/4/22	Sun	Prevention methods – Physical Security, Pen Testing and Network Forensics	
4/4/22	Mon	Network Security Past Paper Questions	
5/4/22	Tue	Logic Gates (AND, OR, NOT, Truth tables for each)	
6/4/22	Wed	Combined Logic Gates + Logical Expressions (e.g. Q = NOT (A AND B))	
7/4/22	Thu	Legal Impact of Technology - Data Protection Act	
8/4/22	Fri	Legal Impact of Technology - Computer Misuse Act	
9/4/22	Sat	Legal Impact of Technology - Copyright, Designs and Patents Act	
10/4/22	Sun	Practice essay questions on legal	
11/4/22	Mon	Re-cap Binary representation (Numbers) – Test yourself	
12/4/22	Tue	Re-cap Binary representation (Images and words) – Test yourself	
13/4/22	Wed	Types of Network (LAN/WAN, Client/Server and Peer 2 Peer, Purpose of a server)	
14/4/22	Thu	Topologies (Star, Partial Mesh and Full Mesh)	
15/4/22	Fri	Network Performance (Wired/wireless, Bandwidth, Signal Strength)	
16/4/22	Sat	Network Hardware (Switch, Router, NIC, WAP)	
17/4/22	Sun	The internet (Cloud Computing, Web hosting)	
18/4/22	Mon	Addressing (IP/MAC, DNS)	
19/4/22	Tue	Protocols (Email – SMTP, IMAP, POP3 – Other Protocols – FTP, TCP etc)	
20/4/22	Wed	Networking Past Paper Questions	
21/4/22	Thu	Re-cap network threats and prevention – Test yourself	
22/4/22	Fri	Programming – IF/ELIF/ELSE statements	
23/4/22	Sat	Programming – While Loops	
24/4/22	Sun	Programming – For Loops	
25/4/22	Mon	Programming – Arrays/Lists	
26/4/22	Tue	Maintainability of code	
27/4/22	Wed	Re-Cap Networks – Test Yourself	
28/4/22	Thu	Re-Cap Storage (Primary and Secondary) – Test Yourself	
29/4/22	Fri	Sorting Algorithms (Bubble, Insert and Merge)	
30/4/22	Sat	Searching Algorithms (Linear and Binary)	

MAY

Date	Day	Topic	
1/5/22	Sun	CPU Characteristics (Clock Speed, Cores and Cache)	○
2/5/22	Mon	Fetch, Decode, Execute Cycle	○
3/5/22	Tue	CPU units and registers (MAR, MDR, CIR, PC, Accumulator, ALU, CU)	○
4/5/22	Wed	Embedded Systems	○
5/5/22	Thu	Systems Architecture Past Paper Questions	○
6/5/22	Fri	Focused revision on areas you struggle with	○
7/5/22	Sat	Focused revision on areas you struggle with	○
8/5/22	Sun	Focused revision on areas you struggle with	○
9/5/22	Mon	Focused revision on areas you struggle with	○
10/5/22	Tue	Re-cap Data Representation – Test yourself	○
11/5/22	Wed	Re-cap Storage – Test yourself	○
12/5/22	Thu	Re-cap Networks – Test yourself	○
13/5/22	Fri	Re-cap Network Security – Test yourself	○
14/5/22	Sat	Re-cap Legal Impacts – Test yourself (essay questions PLAN PLAN PLAN!)	○
15/5/22	Sun	Re-Cap Sytems Architecture	○
16/5/22	Mon	**UNIT 1 EXAM**	
17/5/22	Tue	Computational Thinking	○
18/5/22	Wed	Logic Gates	○
19/5/22	Thu	Programming - Selection (IF Statements)	○
20/5/22	Fri	Programming - Iteration WHILE and FOR	○
21/5/22	Sat	Searching Algorithms	○
22/5/22	Sun	Sorting Algorithms	○
23/5/22	Mon	Arrays	○
24/5/22	Tue	Sub-Routines	○
25/5/22	Wed	SQL	○
26/5/22	Thu	Programming Languages and IDE's	○
27/5/22	Fri	**UNIT 2 EXAM**	