

Computer Science

Topics

OCR GCSE Computer Science Revision Checklist

OCR Component 01 Computing Systems 80 marks – 1 hour and 30 minutes, Written paper (no calculators allowed)	OCR Component 02 Computational Thinking, Algorithms & Programming 80 marks – 1 hour and 30 minutes, Written paper (no calculators allowed)
1.1 – Systems Architecture	2.1 – Algorithms
1.2 – Memory	2.2 – Programming Techniques
1.3 – Storage	2.3 – Producing Robust Programs
1.4 – Wired & Wireless Networks	2.4 – Computational Logic
1.5 – Network Topologies, Protocols & Layers	2.5 – Translators & Facilities of Languages
1.6 – Systems security	2.6 – Data Representation
1.7 – Systems Software	
1.8 – Ethical, Legal, Cultural & Environmental Concerns	

Revision - SmartRevise – Weekly topics have been set. Login and complete the practice exam questions.

Revision Techniques – Complete past papers (files on teams) & create revision sheets like below with keywords.

Binary Addition	Binary shift (+)	Binary shift (X)	Hardware	Software	Logic gates
Binary to Decimal	Decimal to Binary	Binary to Hexadecimal	Fetch – Decode – Execute	Operating System	Truth Tables
ASCII	Data representation Bitmap images	Hexadecimal to Binary	CPU performance	Computer Systems Cloud Storage	RAM vs ROM (Main memory)
Hexadecimal to Binary	Sound representation	Compression(RLE/Huffman)	Von Neumann Architecture	Embedded Systems	Secondary Storage
Advantages/Disadvantages	BUS VS STAR Topology	PAN, LAN, WAN	Digital Divide	Laws	E-Waste
Wired/Wireless	TCP/IP	Protocols	Social Networks/Mobile phones	Increase in mobile phones	Rise in artificial intelligence
Malware	Networks and Security Social Engineering	Other Risks	Driverless cars	E, L, E issues Employment issues	Computer based implants
Penetration testing	Authentication methods (4)	Software updates	Computer Waste	Surveillance	Censorship