

GCSE Computer Science Homework 2025 – 2026

Homework is set from September and covers previous topics covered on the course, this is to allow for revision and interleaving of the course content.

Homework is set on a Tuesday in week 2 and is due Thursday in week 1

Date Set	Date Due	Topic	
09/9/25	18/9/25	Network classifications & server types	9
		The Internet	10
		The Internet 2	11
		Network Types	12
		Network Hardware	13
		Network Topologies	14
23/09/25	3/10/25	Network Protocols	15
		Network Communication	16
		Ethernet & Network Layers	17
		Wi-Fi & Network performance	18
		Computer Security – Methods of Attack	19
		Computer Security – Methods of Attack 2	20
7/10/25	16/10/25	Computer Security – Malware	21
		Computer Security – Malware 2	22
		Computer Security – People	23
		Operating Systems	25
		Utility Software	25
		Decomposition	29
22/10/25	6/11/25	Abstraction	30
		Algorithmic Thinking	31
		Linear and Binary Searches	32
		Sorting 1 – Bubble Sort	33
		Sorting 2 – Insertion Sort	34
		Sorting 3 – Merge Sort	35
11/11/25	20/11/25	Flow Diagrams 1	36
		Flow Diagrams 2	37
		Assignment, Variables, Constants & Sequences	38
		Data Types	39
		Inputs, Outputs and Casting	40
		Numeric Operations	41
25/11/25	4/12/25	File Operations	50
		Procedures	51
		Functions	52
		Comments and Readability	57
		String Manipulation	48
		String Manipulation 2	49
9/12/25	18/12/25	IF Statements & Boolean Operators	42
		Nested IF & SWITCH-CASE Statements	43
		WHILE< DO-UNTIL Loops	44

		FOR Loops	45
		Arrays	46
		2D Arrays	47
6/1/26	15/1/26	Databases	53
		SQL	54
		Computer Systems	1
		Computer Architecture	2
		The CPU	3
		The CPU 2	4
20/1/26	29/1/26	Coding Instructions	5
		RAM, ROM, & Virtual Memory	6
		Storage Technologies & Media	7
		Storage Devices	8
		Logic gates	68
		Authentication, Misuse & Contingencies	55
3/2/26	12/2/26	Validation and Verification	56
		Errors and Testing	58
		Assemblers, Compilers & Interpreters	75
		IDE's	76
		Computing Units	59
		Binary	60
24/2/26	5/3/26	Binary to Denary Conversions	61
		Denary to Binary Conversions	62
		Binary Addition	63
		Hexadecimal to Denary Conversions	64
		Denary to Hexadecimal conversions	65
		Hexadecimal to Binary conversions	66
10/3/26	19/3/26	Binary shifts	67
		Character Sets – Unicode	70
		Images and Pixels	71
		Image Size	72
		Digitising Sound	73
		Compression and Internet File Formats	74
24/3/26	16/4/26	Character Sets - ASCII	69
		Legislation	26
		Ethics, Culture & the Environment	27
		Open Source and proprietary Software	28