

	A	B	C	D	E	F	G	H	I		
1	Guiseley School Revision Support										
2	Subject: GCSE Computer Science										
3											
4											
5											
6											
7	Component 1:			Exercise books/notes	😊	😐	😞	CGP workbook completed?	Videos		
8	1.1 Systems architecture	1.1.1 Architecture of the CPU	The purpose of the CPU						1. GCSE OCR 1.1 The purpose of the CPU - The fetch-execute cycle.mp4		
9			Common CPU components and their features						2. GCSE OCR 1.1 Common CPU components and their function.mp4		
10			Von Neumann architecture						3. GCSE OCR 1.1 Von Neumann architecture.mp4		
11	1.1.2 CPU performance	1.1.2 CPU performance	How common characteristics of CPUs affect their performance						4. GCSE OCR 1.1 The common characteristics of CPUs.mp4		
12			1.1.3 Embedded systems	1.1.3 Embedded systems	The purpose and characteristics of embedded systems					5. GCSE OCR 1.1 Embedded systems.mp4	
13		Examples of embedded systems							5. GCSE OCR 1.1 Embedded systems.mp4		
14	1.2 Memory and storage	1.2.1 Primary storage (Memory)	The need for primary storage						6. GCSE OCR 1.2 The need for primary storage.mp4		
15			The difference between RAM and ROM							7. GCSE OCR 1.2 RAM and ROM.mp4	
16			The purpose of ROM in a computer system							7. GCSE OCR 1.2 RAM and ROM.mp4	
17			The purpose of RAM in a computer system							7. GCSE OCR 1.2 RAM and ROM.mp4	
18			Virtual memory							8. GCSE OCR 1.2 Virtual memory.mp4	
19		1.2.2 Secondary storage	1.2.2 Secondary storage	The need for secondary storage						9. OCR GCSE 1.2 The need for secondary storage.mp4	
20				Common types of storage							10. GCSE OCR 1.2 Common types of storage.mp4
21				Suitable storage devices and storage media for a given application							11. GCSE OCR 1.2 Suitable storage devices and storage media.mp4
22				The advantages and disadvantages of different storage devices and storage media relating to these characteristics						11. GCSE OCR 1.2 Suitable storage devices and storage media.mp4	
23		1.2.3 Units	1.2.3 Units	The units of data storage						12. GCSE OCR 1.2 The units of data storage.mp4	
24				How data needs to be converted into a binary format to be processed by a computer							13. GCSE OCR 1.2 How data needs to be converted into binary to be processed by a computer.mp4
25				Data capacity and calculation of data capacity req							14. GCSE OCR 1.2 Data capacity and calculation of data capacity requirements.mp4
26		1.2.4 Data Storage	1.2.4 Data Storage	Convert positive denary whole numbers to binary numbers and vice versa						15. GCSE OCR 1.2 Converting between denary and 8-bit binary.mp4	
27				Add two binary integers together and explain overflow errors which may occur							16. GCSE OCR 1.2 Adding two 8-bit binary integers.mp4
28				Convert positive denary whole numbers into 2-digit hexadecimal numbers and vice versa							17. GCSE OCR 1.2 Converting between denary and 2-digit hexadecimal.mp4
29	Convert binary integers to their hexadecimal equivalents and vice versa									17. GCSE OCR 1.2 Converting between denary and 2-digit hexadecimal.mp4	
30	Binary shift									18. GCSE OCR 1.2 Binary shifts.mp4	
31	Characters									19. GCSE OCR 1.2 Representing characters and character sets.mp4	
32	Images									20. GCSE OCR 1.2 Representing images.mp4	
33	Sound							21. GCSE OCR 1.2 Representing sound.mp4			
34	1.2.5 Compression	1.2.5 Compression	The need for compression						22. GCSE OCR 1.2 Compression.mp4		
35			Types of compression							22. GCSE OCR 1.2 Compression.mp4	
36	1.3 Computer networks, connections and protocols	1.3.1 Networks and topologies	Types of network						23. GCSE OCR 1.3 Types of networks.mp4		
37			Factors that affect the performance of networks							24. GCSE OCR 1.3 Factors that affect the performance of networks.mp4	
38			The different roles of computers in a client-server and a peer-to-peer network							25. GCSE OCR 1.3 Client-server and peer-to-peer networks.mp4	
39			The hardware needed to connect stand-alone computers into a Local Area Network							26. GCSE OCR 1.3 Hardware to connect a LAN.mp4	
40			The Internet as a worldwide collection of computer networks							27. GCSE OCR 1.3 The internet.mp4	
41		Star and Mesh network topologies							28. GCSE OCR 1.3 Star and mesh network topologies.mp4		
42		1.3.2 Wired and wireless networks, protocols and layers	1.3.2 Wired and wireless networks, protocols and layers	Modes of connection						29. GCSE OCR 1.3 Modes of connection, wired and wireless.mp4	
43				Encryption							30. GCSE OCR 1.3 Wireless encryption.mp4
44				IP addressing and MAC addressing							31. GCSE OCR 1.3 The use of IP and MAC addressing.mp4
45				Standards							32. GCSE OCR 1.3 Standards.mp4
46	Common protocols									33. GCSE OCR 1.3 Common protocols.mp4	
47	The concept of layers							34. GCSE OCR 1.3 The concept of layers.mp4			
48	1.4 Network security	1.4.1 Threats to computer systems and networks	Forms of attack						35. GCSE OCR 1.4 Forms of attack.mp4		
49			Common prevention methods							36. GCSE OCR 1.4 Threats posed to networks.mp4	
50	1.4.2 Identifying and preventing vulnerabilities	1.4.2 Identifying and preventing vulnerabilities							37. GCSE OCR 1.4 Identifying and preventing vulnerabilities.mp4		
51											
52	1.5. Systems Security	1.5.1 Operating Systems	The purpose and functionality of operating systems						38. GCSE 1.5 The purpose and functionality of operating systems.mp4		
54										39. GCSE OCR 1.5 Operating systems part 1.mp4	
55										40. GCSE OCR 1.5 Operating systems part 2.mp4	
56	1.5.2 Utility Software	1.5.2 Utility Software	The purpose and functionality of utility software						41. GCSE OCR 1.5 Utility system software.mp4		
57			Utility system software								
58			Impacts of digital technology on wider society						42. GCSE OCR 1.6 How to investigate and discuss Computer Science technologies.mp4		

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59	1.6 Ethical, legal, cultural and environmental impacts of digital technology	1.6.1 Ethical, legal, cultural and environmental impact	Legislation relevant to Computer Science						43. GCSE OCR 1.6 Privacy issues.mp4		
60									44. GCSE OCR 1.6 Cultural implications of computer science .mp4		
61									45. GCSE OCR 1.6 Environmental impact of computer science .mp4		
62									46. GCSE OCR 1.6 Impacts of digital technology on wider society.mp4		
63									47. GCSE OCR 1.6 Legislation relevant to computer science.mp4		
64								48. GCSE OCR 1.6 Open source vs proprietary software.mp4			
65											
66											
67											
68	Component 2:			Exercise books/notes	😊	😐	😞	CGP workbook completed?	Videos		
69	2.1 Algorithms	2.1.1 Computational thinking	Principles of computational thinking						49. GCSE OCR 2.1 Abstraction.mp4		
70									50. GCSE OCR 2.1 Decomposition.mp4		
71									51. GCSE OCR 2.1 Algorithmic thinking.mp4		
72		2.1.2 Designing, creating and refining algorithms	Identify the inputs, processes, and outputs Structure diagrams Create, interpret, correct, complete, and refine algorithms	Identify common errors						52. GCSE OCR 2.1 Inputs, processes and outputs.mp4	
73										53. GCSE OCR 2.1 Structure diagrams.mp4	
74											54. GCSE OCR 2.1 How to produce algorithms using pseudocode and flow diagrams.mp4
75											55. GCSE OCR 2.1 Identifying errors and suggesting fixes.mp4
76		2.1.3 Searching and sorting algorithms	Binary search Linear search Bubble sort Merge sort Insertion sort	Trace tables						56. GCSE OCR 2.1 Trace tables.mp4	
77										57. GCSE OCR 2.1 Binary search.mp4	
78										58. GCSE OCR 2.1 Linear search.mp4	
79										59. GCSE OCR 2.1 Bubble sort.mp4	
80										60. GCSE OCR 2.1 Merge sort.mp4	
81								61. GCSE OCR 2.1 Insertion sort.mp4			
82	2.2 – Programming Fundamentals	2.2.1 Programming fundamentals	The use of variables, constants, operators, inputs, outputs and assignments						62. GCSE OCR 2.2 The use of variables, constants, inputs, outputs and assignments.mp4		
83										63. GCSE OCR 2.2 The use of the three basic programming constructs.mp4	
84										64. GCSE OCR 2.2 The common arithmetic and comparison operators.mp4	
85										65. GCSE OCR 2.2 The common Boolean operators.mp4	
86		2.2.2 Data types	Data types	Boolean operators AND, OR and NOT						66. GCSE OCR 2.2 The use of data types and casting.mp4	
87											67. GCSE OCR 2.2 The use of basic string manipulation.mp4
88											68. GCSE OCR 2.2 The use of basic file handling operations.mp4
89											69. GCSE OCR 2.2 The use of records to store data.mp4
90											70. GCSE OCR 2.2 The use of SQL to search for data.mp4
91	2.2.3 Additional programming techniques	SQL to search for data Arrays Sub programs Random number generation	Records to store data						71. GCSE OCR 2.2 The use of arrays.mp4		
92										72. GCSE OCR 2.2 How to use sub programs.mp4	
93										73. GCSE OCR 2.2 Random number generation.mp4	
94										75. GCSE OCR 2.3 Defensive design considerations part 2.mp4	
95	2.3 Producing robust programs	2.3.1 Defensive design	Defensive considerations						74. GCSE OCR 2.3 Defensive design considerations part 1.mp4		
96										76. GCSE OCR 2.3 Maintainability.mp4	
97										77. GCSE OCR 2.3 The purpose and types of testing.mp4	
98		2.3.2 Testing	Purpose of testing Types of testing Syntax and logic errors Suitable test data Refining algorithms	Input validation						77. GCSE OCR 2.3 The purpose and types of testing.mp4	
99											78. GCSE OCR 2.3 How to identify syntax and logic errors.mp4
100									79. GCSE OCR 2.3 Suitable test data.mp4		
101									80. GCSE OCR 2.3 Refining algorithms to make them more robust.mp4		
102	2.4 Boolean logic	2.4.1 Boolean logic	Simple logic diagrams						81. GCSE OCR 2.4 Simple logic diagrams.mp4		
103										82. GCSE OCR 2.4 Truth tables.mp4	
104										83. GCSE OCR 2.4 Combining Boolean operators.mp4	
105										84. GCSE OCR 2.4 Applying logical operators in truth tables to solve problems.mp4	
106	2.5 – Programming languages and Integrated Development Environments	2.5.1 Languages	Characteristics and purpose						85. GCSE OCR 2.5 Characteristics and purpose of different levels of programming language.mp4		
107										86. GCSE OCR 2.5 The purpose of translators.mp4	
108										87. GCSE OCR 2.5 Characteristics of compilers and interpreters.mp4	
109			2.5.2 The Integrated Development Environment (IDE)	Common tools in IDEs						88. GCSE OCR 2.5 IDEs.mp4	
110											
111	Resources to support revision:										
112	1) Lesson presentations on VLE										
113	2) Lesson booklets on VLE										
114	3) Videos on VLE										
115	4) Knowledge organisers on VLE										
116	5) CGP workbook										
117	6) CGP revision guide										
118	7) CGP 10 minutes tests										
119	8) Flash Cards										