

Part 1 – Computer Systems					
Student Checklist					
Denary, binary and hexadecimal	R	А	G		
I can convert between denary, binary and hexadecimal					
I can perform binary additions and shifts					
CPU components	R	А	G		
I can identify the purpose & function of CPU registers					
Networks	R	А	G		
I can identify factors that impact performance					
I can explain the process of data transfer over a network					
I can explain the purpose and function of network hardware					
I can describe methods to protect networks					
I can identify the purpose and function of network protocols					
Law, ethics and culture	R	А	G		
I can explain legal, ethical and cultural issues of a given scenario					
I can state the appropriate legislation related to a given scenario					



Part 2 – Computational Thinking, Algorithms and Progra	amming			
Programming		R	А	G
I can identify the three programming fundamentals				
I can write algorithms in pseudocode or a high-level language for a given purpose				
I can identify suitable inputs and outputs for algorithms				
I can trace inputs, outputs and variables				
I can identify data types and apply casting				
I can identify the purpose and function of arithmetic operators				
I can create maintainable code				
Computational thinking		R	А	G
I can state the principles of computational thinking				
Logic gates & diagrams		R	А	G
I can create logic diagrams for given boolean expressions				
I can create truth tables for given boolean expressions				
Algorithms		R	А	G
I can create flowchart algorithms for a given purpose				



I can apply linear or binary searching algorithms		
I can apply bubble, merge, or insertion sorting algorithms		

Computer Science Revision Resources	Link
OCR Ada Computer Science	https://adacomputerscience.org/topics?examBoard=ocr&stage=gcse
OCR BBC Bitesize Computer Science	https://www.bbc.co.uk/bitesize/examspecs/zmtchbk
OCR Craig & Dave Videos	https://student.craigndave.org/J277
W3 Schools: Python Tutorial	https://www.w3schools.com/python/