



Y11 Computer Science Checklist

Computer Paper 1 – Computing Principles			
Student Checklist			
CPUs & Primary Storage	R	A	G
I can describe the purpose & function of primary storage			
I can identify factors affecting CPU performance			
I can describe the purpose & function of the CPU			
Operating Systems & Utility Software	R	A	G
I can describe the purpose & function of operating systems			
I can describe a range of utility software			
I can describe the features of open source software			
Environmental, cultural & legal impacts	R	A	G
I can describe the environmental, cultural and legal impacts for a range of scenarios			
I can describe the ethical, legal & privacy issues for a give of scenario			
I can link my answer directly to a given scenario			
I can identify legislation that is relevant to given scenarios			



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Fundamentals of Programming	R	A	G
I can follow the sequence and flow of a given program			
I can identify suitable selection conditions			
I can use appropriate variables, inputs & outputs			
Secondary Storage	R	A	G
I can describe the purpose & function of secondary storage			
I can explain the benefits & drawbacks of secondary storage options in given scenarios			
Networks, Topologies & Security	R	A	G
I can describe LANs & WANs			
I can describe the key features of different network topologies			
I can explain factors that affect network performance			
I can describe how data moves around a network			
I can describe a range of malware & cyber security risks			
I can identify the purpose of different protocols			
Computer Paper 2 – Algorithms & Programming			
Student Checklist			



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Data Representation	R	A	G
I can identify the purpose of different data sets			
I can identify ASCII characters			
I can describe how sound is converted to binary			
I can calculate file sizes			
Search & Sort Algorithms	R	A	G
I can identify features of insertion sorts			
I can describe the steps of binary sorts			
Fundamentals of Programming	R	A	G
I can write Python programs to follow given criteria			
I can use sequence, selection and iteration.			
I can describe the purpose and function of different data types			
I can represent algorithms using flowcharts			
I can use appropriate selection & iteration conditions			
I can describe computational thinking techniques			
Fundamentals of Programming	R	A	G



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I can describe the purpose and function of variables or constants			
I can use string manipulation techniques			
I can identify appropriate outputs from given programs			
Binary & Hexadecimal	R	A	G
I can convert between denary, binary & hexadecimal			
I can describe the purpose and function of denary, binary & hexadecimal			
I can identify the effects of binary shifts			
I can calculate binary additions			
Programming Techniques	R	A	G
I can create algorithms using functions & procedures			
I can identify errors in given programs			
I can describe data validation techniques			
I can write Python programs to follow given criteria			

Computer Science	Link (add revision links- page no or online)
OCR Ada Computer Science	https://adacomputerscience.org/topics?examBoard=ocr&stage=all
BBC Bitesize OCR Computer Science	https://www.bbc.co.uk/bitesize/examspecs/zmtchbk



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Craig & Dave OCR GCSE Videos	https://student.craigndave.org/J277
W3 Schools: Python Tutorial	https://www.w3schools.com/python/