



## Y10 Computer Science Checklist

Computer Systems, Algorithms & Programming			
Hardware	R	A	G
I can describe the purpose and function of the Fetch, Decode, Execute cycle			
I can describe the purpose and function of CPU registers			
I can describe the purpose and function of primary storage (RAM and ROM)			
Binary and data representation	R	A	G
I can convert between binary and denary			
I can describe the process of representing images and sound in binary			
Networks	R	A	G
I can describe the benefits and drawbacks of wired and wireless networking			
I can describe threats to networks			
Ethics & law	R	A	G
I can discuss ethical, cultural and legal issues related to a given scenario			
Fundamentals of programming	R	A	G
I can describe inputs and outputs for given programming code			
I can create (Python or pseudocode) programs for a given purpose using programming constructs (sequence/selection/iteration)			



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I can describe methods of defensive design			
I can create programs using functions			
<b>Computational thinking and logic</b>	<b>R</b>	<b>A</b>	<b>G</b>
I can describe the purpose and function of computational thinking techniques			
I can apply computational thinking techniques to a given scenario			
I can create logic circuits for a given expression			
<b>Algorithms</b>	<b>R</b>	<b>A</b>	<b>G</b>
I can create algorithms using flowcharts for a given scenario			
I can describe the steps of sorting algorithms			
I can describe the steps of searching algorithms			
<b>Computer Science</b>	<b>Link (add revision links- page no or online)</b>		
OCR Ada Computer Science	<a href="https://adacomputerscience.org/topics?examBoard=ocr&amp;stage=gcse">https://adacomputerscience.org/topics?examBoard=ocr&amp;stage=gcse</a>		
BBC Bitesize OCR Computer Science	<a href="https://www.bbc.co.uk/bitesize/examspecs/zmtchbk">https://www.bbc.co.uk/bitesize/examspecs/zmtchbk</a>		
Craig & Dave OCR GCSE Videos	<a href="https://craigndave.org/ocr-gcse-j277-videos/">https://craigndave.org/ocr-gcse-j277-videos/</a>		
W3 Schools: Python Tutorial	<a href="https://www.w3schools.com/python/">https://www.w3schools.com/python/</a>		