



Y9 Computer Science Checklist

Student Checklist			
Cyber Security			
Types of Cyber Threats and Prevention	R	A	G
I can describe what type of information is collected online			
I can describe social engineering techniques (phishing, blagging, shouldering and name generators)			
I can describe cyber attacks (hacking, DDoS and brute force)			
I can describe the UK law that applies to cyber crime			
I can describe different types of malware (virus, trojan, ransomware and worm)			
I can describe methods to prevent and protect against cyber security threats (firewall, anti-malware and security policies)			
Computational Thinking			
Principles of Computational Thinking and Common Algorithms	R	A	G
I can describe the fundamental principles of Computational Thinking (algorithms, abstraction and decomposition)			
I can describe the steps of searching algorithms (linear search and binary search)			
I can describe the steps of a bubble sorting algorithm			
I can create flow charts using the correct shapes			



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Artificial Intelligence & Ethics			
AI, Machine Learnings and Ethical Issues	R	A	G
I can describe what artificial intelligence is			
I can describe what machine learning is			
I can explain current uses of AI			
I can explain potential ethical problems that AI systems may have			
I can explain potential legal problems that AI systems may have			

Computer Science Revision Resources	Link
<p>BBC Bitesize Computer Science</p> <ul style="list-style-type: none">● Online Safety● Computational Thinking● Algorithms● The Law and Ethics● Bias and Reliability	<p>https://www.bbc.co.uk/bitesize/subjects/zvc9q6f</p>
<p>Ada Computer Science</p> <ul style="list-style-type: none">● Safety and Security● Algorithms● AI and MACHine Learning	<p>https://adacomputerscience.org/topics?examBoard=ocr&stage=gcse</p>