



Year 8 Computer Science Checklist

End of Year Assessment			
Student Checklist			
Computer Systems	R	A	G
I understand the difference between hardware and software			
I can say what the CPU, RAM, storage and motherboard are and what they do			
I can say what an operating system is and what it does			
I can identify the three logic gates			
I can say what the output would be from a logic circuit			
I can say how AI learns new information			
I can explain problems that AI might have			
Python Programming	R	A	G
I can use inputs and outputs in Python			
I can store the user's answer			
I can identify different data types			
I can create Python programs using if statements to select which code runs			
I can create Python programs using for and while loops to repeat code			



Year 8 Computer Science Checklist

I can use a range of operators to compare values (such as ==, !=, <, >)			
I can draw shapes with for loops in Python Turtle			
Data Representation	R	A	G
I can convert between normal denary numbers and binary using a conversion table			
I can say how letters/characters are represented in binary			
I can say how images/pixels are represented in binary			
I can say how sound is converted into binary			
I can explain the impact that file sizes have when using computers			

Computer Science	Link (add revision links- page no or online)
Both links have sections for hardware, logic, digital devices, Python programming and data representation	
• BBC Bitesize Computer Science	https://www.bbc.co.uk/bitesize/subjects/zvc9q6f
• Seneca	https://senecalearning.com/en-GB/revision-notes/ks3/computer-science/national-curriculum