



## Y8 Computer Science Checklist

Student Checklist			
Computer Systems			
Computer Hardware and Software	R	A	G
I can identify input and output devices			
I can describe what the main hardware components do (CPU, RAM, storage and motherboard)			
I can describe what an operating system does			
I can identify the basic logic gates			
I can trace the output for logic circuits			
Python Programming			
Fundamentals of Programming	R	A	G
I can use inputs and outputs			
I can write selection statements with if /else			
I can use for and while loops to repeat code			
I can create basic shapes using Python Turtle			
I can trace what outputs are going to be from code I am given			



## Y8 Computer Science Checklist

Data Representation			
Representing Numbers, Images, Sound and Text	R	A	G
I can convert between denary and binary numbers			
I can explain how images are made using binary			
I can explain how sound is stored in binary			
I can explain how binary sequences can be used to represent letters/symbols			
I can explain why compression is used			
I can explain basic compression techniques			

Computer Science Revision Resources	Link
<p>BBC Bitesize Computer Science:</p> <ul style="list-style-type: none"><li>● Digital Devices</li><li>● The CPU and the fetch-execute cycle</li><li>● Binary</li><li>● Representing text, images &amp; Sound</li><li>● Introduction to Programming</li><li>● Selection in Programming</li><li>● Iteration in Programming</li></ul>	<p><a href="https://www.bbc.co.uk/bitesize/subjects/zvc9q6f">https://www.bbc.co.uk/bitesize/subjects/zvc9q6f</a></p>