

<b>Personalised Learning Checklist</b>	<b>RAG</b>
<b>The characteristics of contemporary processors, input, output and storage devices</b>	<b>1, 2, 3</b>
Structure and function of the processor	
I can describe the Arithmetic and Logic Unit; ALU, Control Unit and Registers	
(Program Counter; PC, Accumulator; ACC, Memory Address Register; MAR, Memory Data Register; MDR, Current Instruction Register; CIR).	
Buses: data, address and control: how this relates to assembly language programs.	
I understand the Fetch-Decode-Execute Cycle; including its effects on registers.	
I can explain the factors affecting the performance of the CPU: clock speed, number of cores, cache.	
I understand the use of pipelining in a processor to improve efficiency.	
I can explain the Von Neumann, Harvard and contemporary processor architecture.	
Types of processor	
I understand the differences between and uses of CISC and RISC processors.	
I can explain GPUs and their uses (including those not related to graphics).	
I understand Multicore and Parallel systems.	
Input, output and storage	
I can explain how different input, output and storage devices can be applied to the solution of different problems.	
I understand the uses of magnetic, flash and optical storage devices.	
I can explain RAM and ROM.	
I understand Virtual storage.	

**Complete the RAG by giving a 1,2 or 3 on your confidence of this gained knowledge.**

1 - Red - I am not confident of this knowledge.

2 - Amber - I have some knowledge in this area.

3 - Green - I am very confident in this area, I have this knowledge secured.