

<b>Topic: 7.2 Computer Systems</b>				<b>Duration: 6 weeks</b>	<b>Composite: EOU Test</b>	
<b>Key vocabulary:</b>	<b>Core knowledge questions</b>			<b>Powerful knowledge crucial to commit to long term memory</b>	<b>Links to previous and future topics</b>	
Input Process Output Fetch Decode Execute Component Storage Memory RAM ROM CPU HDD PSU Motherboard NIC	<ol style="list-style-type: none"> <li>1. What is a computer system? A computer system is any device that can take an input, process it, and output the result</li> <li>2. What is an input device? An input device is a peripheral that can be used to enter data into a system</li> <li>3. What is an output device? An output device is a peripheral that can be used to display information visually, audibly, or haptically.</li> <li>4. What is hardware? Hardware is the term given to a component that can be physically touched</li> <li>5. What is software? Software is the program or application that can be used to control the hardware in a computer system.</li> <li>6. What is the role of the CPU? The CPU is the brain of the computer. It is used to process and control all data input into the system.</li> <li>7. What is the main function of the CPU? To run an endless fetch, decode and execute cycle to process instructions.</li> <li>8. What are components? Components are the different parts of hardware that when combined make up the Computer System.</li> <li>9. What is storage? Storage is how computers store data and programs so that they can be retrieved at a later date.</li> <li>10. What is memory? Memory is where data is stored temporarily so that it can be accessed and interacted with more quickly than storage.</li> </ol>			<ul style="list-style-type: none"> <li>• A computer system is any device that can take an input, process it, and output the result</li> <li>• An input device is a peripheral that can be used to enter data into a system</li> <li>• An output device is a peripheral that can be used to display information visually, audibly, or haptically</li> <li>• Hardware is the term given to a component that can be physically touched</li> <li>• Software is the program or application that can be used to control the hardware in a computer system</li> </ul>	<ul style="list-style-type: none"> <li>• Provides foundations of how the computer system works and operates</li> <li>• Links to programming units</li> <li>• Revisit in Year 8.</li> </ul>	
<b>We will develop these skills:</b>						
<b>Impressive reading</b>	<b>Impressive speaking</b>	<b>Impressive writing</b>	<b>Resilience</b>	<b>Numeracy via:</b>	<b>Digital Literacy via:</b>	<b>Employability via:</b>
Read and research the function and purpose of different components	Explain what each of the components do and identify this on a model.	Explain the role of the CPU in the computer system	Developing ability to consistently amend and refine work.	Calculating storage size and rotations per second in GHz	Understanding how a computer system works and process data. Developing awareness of the technology students use.	Links to how digital technology is made and works