

KEVICC KS3 Curriculum:	Subject: Computing	Key terms and vocabulary.
Year: 7 Term: 5	Topic: How Computers Work (part 1)	<i>Which words will be explicitly taught &amp; how frequently will understanding be checked? How will assimilation of new vocab be checked?</i>
<p><b>What is the essential knowledge from this unit? What do students need to remember and understand?</b></p> <ul style="list-style-type: none"> <li>• Understand and describe what is meant by a 'computer'</li> <li>• Understand the difference between hardware and software</li> <li>• Recognise and name different input and output devices</li> <li>• Recognise and name different components inside a computer</li> <li>• Describe purpose of each main internal component</li> <li>• Understand that quality of internal components affects performance of computer</li> <li>• Understand difference between denary and binary number systems</li> <li>• Understand why computers use binary number system</li> <li>• Be able to convert between denary and binary numbers</li> <li>• Understand how binary can be used to store characters and symbols</li> <li>• Understand the difference between system and application software</li> <li>• Understand the role and importance of the computer's operating system</li> <li>• Be able to name and categories commonly used apps</li> </ul>		<p><b>Computer Device</b>  <b>Hardware</b>  <b>Software</b>  <b>Input</b>  <b>Output</b>  <b>Component</b>  <b>Processor</b>  <b>Motherboard</b>  <b>Random Access Memory</b>  <b>Hard Disk Drive</b>  <b>Solid State Drive</b>  <b>Denary</b>  <b>Binary</b>  <b>Binary Digit (Bit)</b>  <b>System software</b>  <b>Application software</b>  <b>Operating system</b></p>
<p><b>What prior learning supports understanding of this content?</b></p> <ul style="list-style-type: none"> <li>• Concept of a 'bit' introduced in previous unit</li> <li>• Place value in multi digit numbers from primary school</li> </ul>	<p><b>How does this content link to future learning?</b></p> <ul style="list-style-type: none"> <li>• Year 8 unit develops use of binary to store different types of data, introduces binary addition and explains how component quality affects performance</li> </ul>	<p>Used in context during lessons and understanding checked in end of unit assessment</p>
<p><b>Reading:</b> <i>Where in the unit are students supported to read complex academic text?</i></p> <ul style="list-style-type: none"> <li>• Students will be directed to read age-appropriate content from BBC Bitesize pages and other relevant online sources</li> </ul>	<p><b>Writing:</b> <i>Independent writing tasks and how they are structured</i></p> <ul style="list-style-type: none"> <li>• Students will write full sentence answers each lesson to worksheet questions</li> <li>• Extended writing task to compare performance of two computers with different specifications</li> </ul>	
<p><b>Key assessments:</b>  <i>How will students review the information learned?</i>  <i>How will feedback be seen?</i></p> <ul style="list-style-type: none"> <li>• Students will get short personalised feedback (mainly verbal) on individual tasks</li> <li>• End of unit assessment in penultimate lesson, with final lesson used to give feedback and enable corrections/improvements</li> </ul>		