Year 10	Half Term 1	Half Term 2	Half Term 3	Half Term 4	Half Term 5	Half Term 6
	Component 1  1.1 - Systems architecture	Component 1  1.2 – Memory and storage	Component 1  1.3 – Computer networks,	Component 1  1.4 – Network security	Component 1  1.5 – Systems software	Component 1  1.6 – Ethical, legal, cultural and
	1.1.1 - Architecture of the CPU 1.1.2 - CPU Performance 1.1.3 - Embedded systems	1.2.1 - Primary storage (Memory) 1.2.2 - Secondary storage 1.2.3 - Units	connections and protocols 1.3.1 - Networks and topologies 1.3.2 - Wired and wireless networks, protocols and	1.4.1 -Threats to computer systems and networks 1.4.2 - Identifying and preventing vulnerabilities	1.5.1 - Operating systems 1.5.2 - Segmentation Utility software	environmental impacts of digital technology
Knowledge		1.2.4 - Data storage 1.2.5 - Compression	layers	Component 2	Component 2	Component 2
				<ul><li>2.5 – Programming languages and Integrated Development Environments</li><li>2.5.1 Languages</li></ul>	2.5.2 The Integrated  Development Environment  (IDE)	2.1 – Algorithms 2.1.1 -Computational thinking 2.1.2 - Designing, creating and refining algorithms 2.1.3 - Searching and sorting algorithms
Skills	<ul> <li>How do computer systems store data</li> <li>The key methods used to store data</li> <li>Able to calculate file sizes of image and text files</li> <li>Produce images based on binary data</li> <li>Understand how images and sound are encoded</li> </ul>	<ul> <li>How do computer systems store data</li> <li>The key methods used to store data</li> <li>Able to calculate file sizes of image and text files</li> <li>Produce images based on binary data</li> <li>Understand how images and sound are encoded</li> </ul>	<ul> <li>How do computer systems store data</li> <li>The key methods used to store data</li> <li>Understanding of the use and operation of systems</li> <li>Identify the parts of the protocol stack</li> </ul>	<ul> <li>How do computer systems store data</li> <li>The key methods used to store data</li> <li>Understanding of the use and operation of systems</li> <li>Identify the parts of the protocol stack</li> </ul>	<ul> <li>Able to calculate file sizes of image and text files</li> <li>Produce images</li> <li>based on binary data</li> <li>Understand how images and sound are encoded</li> </ul>	<ul> <li>Understanding of the use of software</li> <li>Discuss issues relating to the use of technology and effects on environment and society</li> <li>Discuss issues relating to the use of technology and effects on environment and society</li> </ul>
Independent Learning Link	1.1 End of Topic Quiz	1.2 End of Topic Quiz	1.3 End of Topic Quiz	2.5 End of Topic Quiz	2.5 End of Topic Quiz	2.2 End of Topic Quiz

Year 11	Half Term 1	Half Term 2	Half Term 3	Half Term 4	Half Term 5	Half Term 6
	Component 1	Component 2	Component 2	Component 2	Component 2	
	1.6.1 - Ethical, legal, cultural and environmental impact	2.3 – Producing robust programs 2.3.1 - Defensive design 2.3.2 - Testing	2.2 – Programming fundamentals 2.2.2 - Data types 2.2.3 - Additional programming	2.5 – Programming languages and Integrated Development Environments	<ul><li>2.4 – Boolean logic</li><li>2.5 – Programming languages</li><li>and Integrated Development</li></ul>	
Knowledge	Component 2	2.4 – Boolean logic	techniques	2.5.1 Languages	Environments	
	<ul><li>2.3 – Producing robust programs</li><li>2.3.1 - Defensive design</li><li>2.3.2 - Testing</li></ul>			2.5.2 The Integrated  Development Environment  (IDE)	2.5.1 Languages 2.5.2 The Integrated Development Environment (IDE	
Skills	<ul> <li>Calculation of Binary Values</li> <li>Calculation of HEX Values</li> <li>Understanding of Binary Shift</li> <li>The use of ASCII text</li> </ul>	<ul> <li>Understand the HW used to create computer networks</li> <li>The benefits and disadvantages associated with different networking topologies</li> </ul>	<ul> <li>Able to calculate file sizes of image and text files</li> <li>Produce images based on binary data</li> <li>Understand how images and sound are encoded</li> <li>Create test plans and use when programming</li> <li>Use trace tables</li> </ul>	<ul> <li>Understand Boolean logic</li> <li>Apply Boolean logic</li> <li>Interpret Boolean logic diagram</li> </ul>	<ul> <li>Understand how to programmatically implement the key constructs</li> <li>Be able to identify the robust programming methods.</li> <li>Implement testing plans and using trace tables. Constructs in Pseudocode</li> <li>Able to answer extended questions</li> </ul>	
Independent Learning Link	1.6 End of Topic Quiz	2.2 End of Topic Quiz ocr computer science gcse paper 1 j277	2.3 End of Topic Quiz ocr computer science gcse paper 1 j277	2.4 End of Topic Quiz ocr computer science gcse paper 1 j277	2.5 End of Topic Quiz ocr computer science gcse paper 1 j277	