

St Thomas's Centre  
OCR J277 Computer Science Long Term Plan  
2021 -2023



	Autumn Term		Spring Term		Summer Term	
Year 10	<ul style="list-style-type: none"> <li>1.2.1 Primary storage</li> <li>1.2.2 Secondary Storage</li> <li>1.2.3 Units</li> <li>2.2.1 Programming Fundamentals</li> <li>2.2.2 Data types</li> </ul>	<ul style="list-style-type: none"> <li>1.3.1 Networks and topologies</li> <li>2.2.1 Programming Fundamentals</li> <li>2.3.1 Defensive design</li> </ul>	<ul style="list-style-type: none"> <li>1.3.2 Wired and wireless networks, protocols and layers</li> <li>2.2 Programming Fundamentals</li> <li>2.3.2 Testing</li> </ul>	<ul style="list-style-type: none"> <li>1.4.1 Threats to computer systems and networks</li> <li>1.4.2 Identifying and preventing vulnerabilities</li> <li>2.1.3 Searching and sorting algorithms</li> </ul>	<ul style="list-style-type: none"> <li>1.2.4 Data Storage - Numbers/Characters</li> <li>2.2 Programming Fundamentals</li> <li>2.5.1 Languages</li> </ul>	<ul style="list-style-type: none"> <li>1.2.4 Data Storage - Images/Sound</li> <li>1.2.5 Compression</li> <li>2.2 Programming Fundamentals</li> </ul>

	Autumn Term		Spring Term		Summer Term
Year 11	<ul style="list-style-type: none"> <li>• 1.6.1 Ethical, legal, cultural and environmental impact</li> <li>• 2.1.1 Computational thinking</li> <li>• 2.1.2 Designing, creating and refining algorithms</li> <li>• 2.4.1 Boolean logic</li> </ul>	<ul style="list-style-type: none"> <li>• 2.5.1 Languages</li> <li>• 2.5.2 The Integrated Development Environment (IDE)</li> <li>• 2.2.3 Additional programming techniques</li> <li>• 2.3.2 Testing</li> </ul>	<ul style="list-style-type: none"> <li>• 1.5.1 Operating systems</li> <li>• 1.5.2 Utility software</li> <li>• 1.1 Systems architecture</li> <li>• 2.1.3 Searching and sorting algorithms</li> </ul>	<ul style="list-style-type: none"> <li>• 1.1.2 CPU Performance</li> <li>• 1.1.3 Embedded systems</li> <li>• 1.2.1 Primary Storage (Memory)</li> <li>• 1.2.2 Secondary Storage</li> <li>• 1.2.4 Data Storage - Numbers/Characters</li> </ul>	<p><b>Consolidation/Revision</b> Main Summers exams.</p>