



## Curriculum – Year 11 IT

Year 11 IT	Autumn Term 1	Autumn Term 2	Spring Term 1	Spring Term 2
Cambridge National Level 1 / Level 2 IT – J836	R050 - IT in the digital world – Written exam paper – (1 hour 30 Minutes)			
Ethos Links	Character Confidence – (TA6) Creativity Contributing – (TA3) Community – (TA2)  Relationships Routines Recognition Restorative approach			
Learning End Points	The students will learn about how IT is used in society today. This will be at home, places of work, and out about in real life. The students would have learnt about the design tools used to create an IT system (TA1). They would be able to explain how human computer interfaces work in everyday life (TA2). They would be able to demonstrate their understanding of how to work with data and carry out sophisticated testing (TA3). They should be able demonstrate understanding of cybersecurity and the legislations affiliated with cybercrime (TA4). They should develop a good understanding of existing digital communication methods (TA5). Finally, there has been a sharp rise in smart devices consisting of internet enabled capabilities. Hence, students should become competent on the Internet of Everything topic (TA6).			
Substantive knowledge	<ul style="list-style-type: none"> <li>Design tools (TA1)</li> <li>The Human Computer Interface (HCI) in everyday life (TA2)</li> <li>Data and Testing (TA3)</li> <li>Cyber security and legislations (TA4)</li> <li>Digital Communications (TA5)</li> <li>The Internet of everything (IOE) (TA6).</li> </ul>			
Disciplinary knowledge	An IT specialist who designs an IT system must be able to decompose a client's requirements and make a system to meet their client's needs. The industry-based skills students will learn are how to design HCI to enhance interaction between the end user and the system. This unit will also develop the students understanding of the challenges IT specialists face regarding criminal activity and constraints of designing and implementing an IT system.			
Key Vocabulary	<ul style="list-style-type: none"> <li>Planning tools</li> <li>Human Computer Interface</li> <li>Data Types</li> <li>Testing</li> <li>Distribution Channels</li> <li>Connectivity</li> <li>Internet of everything</li> <li>Malware</li> <li>Networks</li> <li>Social engineering</li> </ul>			