

Year 9 IT	Autumn Term 1Autumn Term 2	Spring Term 1	Spring Term 2	Summer Term 1	Summer Term 2
Cambridge National Level 1 / Level 2 IT – J836	R050 - IT in the digital world – Written exam paper – (1 hour 30 Minutes)	R060 - Data manipulation using spreadsheets – (NEA – Internally and externally assessed)		R070 - Using Augmented Reality to present information – (NEA – Internally and externally assessed)	
Ethos Links	Character Confidence – (TA6) Creativity Contributing – (TA3) Community – (TA2) Relationships Routines Recognition Restorative approach	Character Confidence – (TA4) Creativity – (TA2) Contributing Community Relationships Routines – (TA1) Recognition Restorative approach		Character Confidence Creativity – (TA2) Contributing Community – (TA1) Relationships Routines – (TA4) 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).	 Spreadsheets are powerful sophisticated tools that allow businesses to model real life scenarios. By the end of this unit students will be able to effectively plan and design a spreadsheet solution (TA1). Create a spreadsheet solution based on the NEA scenario provided by the exam board (TA2). They should be competently able to conduct the testing process of the spreadsheet solution (TA3). Finally, to conclude this NEA project the students should be able to confidently evaluate the spreadsheet and their personal performance (TA4). 		The students need to understand how smart devices have changed the way we communic the way information is accessed, viewed, and what is Augmented reality (TA1). Then they will use specific design tools to de Then based on the design they will create th (TA3). Finally, they will be able to understand the p final AR prototype (TA4).	phones, tablets and other digital cate. Augmented Reality has changed d used. The students will first learn sign an AR model prototype (TA2). e AR model prototype using XR plus rocess of how to test and review their
Substantive knowledge	 Design tools (TA1) The Human Computer Interface (HCI) in everyday life (TA2) Data and Testing (TA3) Cyber security and legislations (TA4) Digital Communications (TA5) The Internet of everything (IQE) (TA6). 	 Planning and design (TA1) Creating the spreads Testing the spreadsh Evaluating the spread 	ing the spreadsheet solution heet solution (TA2) eet solution (TA3) dsheet solution (TA4).	 Augmented Reality (AR) (TA1) Designing and AR model prototype (TA Creating an AR MODEL prototype (TA3) Testing and Reviewing (TA4). 	2))

Disciplinary knowledge	An IT specialist who designs an IT system must be able to	The keys IT skills that the students will develop are planning,	Augmented reality is part of everyday study. IT specialists irrespective of the	
	decompose a client's requirements and make a system to meet	designing, creating, testing, and evaluating a spreadsheet	ndustry would have encountered AR at some point. The IT specialists must be able	
	their client's needs. The industry-based skills students will learn	model based on a given scenario. In the IT industry, this	to design, create, test and review AR prototype models in real life. These are the	
	are how to design HCI to enhance interaction between the end	would be the method that would be used by IT experts. This	exact skills we will be teaching the students to ensure that they are organised and	
	user and the system. This unit will also develop the students	would allow the IT specialist to remain on track in terms of	approach any AR task as it would be approached in industry.	
	understanding of the challenges IT specialists face regarding	time management, tasks being allocated appropriately and		
	criminal activity and constraints of designing and implementing an	ensure the IT system (spreadsheet model) meets the needs of		
	IT system.	the audience and the purpose.		
Key Vocabulary	Planning tools	Implementation	Augmented reality	
	Human Computer Interface	Modelling	Maker less AR	
	Data Types	Formulae	Dimensions	
	Testing	Functions	Visualisation	
	Distribution Channels	VLOOKUP	Storyboarding	
	Connectivity	Pivot tables	Wireframes	
	Internet of everything	Macros	Assets	
	Malware	Conditional formatting	Audio	
	Networks	Data types	Publishing	
	Social engineering	Forecasting	Scenes	