J836 Cambridge Nationals Information Technologies.	**Curriculum Intent:** OCR J836 Cambridge National in IT will encourage students to: • understand and apply the fundamental principles and concepts of IT, including the use of IT in the digital world, Internet of Everything, data manipulation and Augmented Reality • understand, apply and use IT appropriately and effectively for the purpose and audience • develop learning and practical skills that can be applied to real-life contexts and work situations • think creatively, innovatively, analytically, logically and critically • develop independence and confidence in using skills that would be relevant to the IT sector and more widely • plan, design, create, test and evaluate/review IT solutions and products which are fit for purpose and meeting user/client requirements and apply design and Human Computer Interface (HCI) considerations appropriate for a defined audience • understand the impacts of digital technologies on the individual, organisation and wider society.	
Year 9 Information Technologies.	**Term 1:**	**Term 2:**	**Term 3**
Topic Titles (in order of delivery)	The Human Computer Interface (HIC)	Creating a Human Computer Interface – Excel guided project	Guided Project- Augmented Reality
Key knowledge / Retrieval topics	HCI – What is it. HCI Design	Application of basic and advanced Excel skills (including macros)	Equipment and software requirements Development of Augmented Reality knowledge and understanding
Understanding / Sequence of delivery	1 Design Tools - use and purpose, context 2.1 HCI In everyday life 2.4 Ways humans interact with computers 2.2 HCI Hardware considerations 2.3 Software Considerations 2.4 Design tools 2.4.1: Mindmaps, visualisation diagrams, wireframes, flowcharts	Basic Excel skills (formatting, basic functions and formulas, absolute / relative references) 3.2.1 data types 3.2.2 Validation / verification 3.2.3 Data validation tools 3.2.4 Data Verification tools 3.3 Data collection methods 3.4 Data storage methods 3.5 Testing a solution 3.5.1. Importance 3.5.2. test data 3.5.2 User vs technical testing	5.1 Types of 5.2 Software 5.3 Devices 5.4 channels / types / connectivity 5.5 Demographics R070 1.1 Purpose and use of AR 1.2 Types of AR 1.3 Devices
Assessments	End of Unit assessment	Completion of the project to client requirements	Completion of the project to client requirements