Y10 OCR Cambridge Nationals in IT (2022)

	Term 1	Term 2	Term 3	Term 4	Term 5	Term 6
Dates	Monday 5 th September – Friday, 21 October 2022	Monday, 1 November – Wednesday, 21 December 2022	Monday, 9 January – Friday, 10 February 2023	Monday, 20 February – Friday, 31 March 2023	Monday, 17 April – Friday, 26 May 2023	Monday, 5 June – Friday, 19 July 2022
Weeks	8	7	7	6	5	6
Lessons	20 lessons	17 Lessons	17 Lessons	15 Lessons	13 Lessons	15 Lessons
Inset						
Unit Title	Unit R070: Using Augmented Reality to present information	Unit R070: Using Augmented Reality to present information	Unit R060: Spreadsheets	Unit R060: Spreadsheets	Unit R060 and R070: Prepare for submission	R050: IT in the Digital World
Sequence	Purpose and uses of Augmented Reality (AR) The purpose of AR The sectors where AR can be used in Uses of AR Types of Augmented Reality (AR) and user interaction Devices used with Augmented Reality (AR) Mobile devices Smart devices Laptop / PC Planning and designing the AR Prototype Design Tools: Mind Maps Mood boards Visualisation diagrams Storyboards Wireframes Flowcharts	Design Tools continued: Planning and design considerations. Purpose and user requirements. Target audience Creating the AR prototype Marker Triggers Layers User Interaction Output Testing: Technical Testing User testing Evaluation/Review	Review work and submit for assessment. Spreadsheet task R070 Purpose of Spreadsheets Uses of spreadsheets Where spreadsheets are used Planning and designing the spreadsheet solution Design Tools: Mind Maps Mood boards Visualisation diagrams Storyboards Wireframes Flowcharts functional design of spreadsheet solution design of system output(s) design of Human Computer Interface	Creating the spreadsheet solution tools and techniques to create the solution Data handling and manipulation Techniques to generate the outputs Charts/graphs Page layout properties Adjusting row and column settings User interface Buttons Macros Hyperlinks Forms Test the user interface and the technical aspects of the spreadsheet solution Testing during development Technical testing Usability testing Testing after development Methods used to evaluate the success of the spreadsheet solution Client requirements HCI design principles and conventions	Update R060 Spreadsheet unit Update R070 Augmented Reality unit Ensure appropriate filenames/folders and prepare for submission	The purpose, importance and use of HCI (Human Computer Interface – also known as User Interface) in application areas Banking Embedded systems Entertainment Fitness Home appliances Retail Hardware considerations: Display e.g. Touch screen LCS LED OLED

Key Building Blocks	The different sectors that use AR The different types of AR How users can interact with AR The different types of devices AR can be used on e.g. phone, tablet, glasses	The purpose and user requirements of an AR product The target audience for an AR product Content and assets required to create an AR product Quality of the assets used to create an AR product Triggers and user interactions required for an AR product Marker-based AR Design tools to support the creation of an AR product Create AR model prototype Test AR prototype Evaluate AR prototype	The purpose and user requirements of a spreadsheet solution The target audience for a spreadsheet solution Information required to create a spreadsheet solution Formula /functions and features of a spreadsheet	Design tools to support the creation of a spreadsheet solution Create spreadsheet solution Test spreadsheet solution Evaluate spreadsheet solution	Review work for each Topic area, design, create, test and evaluate for R060 Spreadsheet unit Review work for each Topic area, design, create, test and evaluate for R070 Augmented Reality unit	A well designed HCl will: Be clear in its layout Consistent in its layout Be simple to use Be user controlled Provide feedback
Retrieval Practices	- Re-cap of skills, assignment and demonstrations using AB Tutor Computer Control to ensure understanding of task - Verbal feedback throughout - Refer to assignment and portfolio of evidence throughout the term - Computing clubs after school to support with understanding and recap of skills - Do Now activities (where appropriate) Interleaved theme (scenario)	- Re-cap of skills, assignment and demonstrations using AB Tutor Computer Control to ensure understanding of task - Verbal feedback throughout - Refer to assignment and portfolio of evidence throughout the term - Computing clubs after school to support with understanding and recap of skills - Do Now activities (where appropriate) - Interleaved theme (scenario)	- Re-cap of skills, assignment and demonstrations using AB Tutor Computer Control to ensure understanding of task - Verbal feedback throughout - Refer to assignment and portfolio of evidence throughout the term - Computing clubs after school to support with understanding and recap of skills - Do Now activities (where appropriate) - Interleaved theme (scenario)	- Re-cap of skills, assignment and demonstrations using AB Tutor Computer Control to ensure understanding of task - Verbal feedback throughout - Refer to assignment and portfolio of evidence throughout the term - Computing clubs after school to support with understanding and recap of skills - Do Now activities (where appropriate) - Interleaved theme (scenario)	- Re-cap of skills, assignment and demonstrations using AB Tutor Computer Control to ensure understanding of task - Verbal feedback throughout - Refer to assignment and portfolio of evidence throughout the term - Computing clubs after school to support with understanding and recap of skills - Do Now activities (where appropriate) - Interleaved theme (scenario)	- Re-cap of skills, assignment and demonstrations using AB Tutor Computer Control to ensure understanding of task - Verbal feedback throughout - Refer to assignment and portfolio of evidence throughout the term - Computing clubs after school to support with understanding and recap of skills
Key Skills	Language & Vocabulary Written communication	Language & Vocabulary Written communication Planning Specialist software skills	Language & Vocabulary Planning Written communication	Language & Vocabulary Written communication Evaluation	Language & Vocabulary Written communication Evaluation	Language & Vocabulary Written communication
Literacy	Written & Oral communication Tier 2 & 3 vocab development	Written & Oral communication Tier 2 & 3 vocab development	Written & Oral communication Tier 2 & 3 vocab development	Written & Oral communication Tier 2 & 3 vocab development	Written & Oral communication Tier 2 & 3 vocab development	Written & Oral communication Tier 2 & 3 vocab development
Numeracy	File sizes	File size Timing	Formula / Functions Add, subtract, multiply, divide Dates Time Sort	Formula / Functions Add, subtract, multiply, divide Dates Time Sort	File sizes Version numbers Formula / Functions Add, subtract, multiply, divide Dates Time Sort	Banking HCI

Formative Assessment	Verbal feedback throughout each lesson Re-cap of task and assignment using Computer Control monitoring software	Verbal feedback throughout each lesson Re-cap of task and assignment using Computer Control monitoring software	Verbal feedback throughout each lesson Re-cap of task and assignment using Computer Control monitoring software	Verbal feedback throughout each lesson Re-cap of task and assignment using Computer Control monitoring software	Verbal feedback throughout each lesson Re-cap of task and assignment using Computer Control monitoring software	Verbal feedback throughout each lesson Re-cap of task and assignment using Computer Control monitoring software	
Summative Assessment	End of unit grading (portfolio of evidence)	End of unit grading (portfolio of evidence)	End of unit grading (portfolio of evidence)	End of unit grading (portfolio of evidence)	End of unit grading (portfolio of evidence)	Activities and Q/A based on exam topics	
Spiritual	Developing knowledge and understanding of how IT has changed the way people interact with technology in their daily lives (including Augmented Reality, Virtual Reality, communication, shopping, gaming, entertainment, education and training, social networking etc.)						
Moral	Learning about appropriate uses of software, malicious use of software and the damage it can cause, and the safe and responsible use of IT.						
Social	Social issues that can affect users of IT, including the use and abuse of personal and private data, cyber bullying etc.						
Cultural	Helping learners to appreciate that IT contributes to the development of our culture and to our highly technological future. How learners need to show cultural awareness of their audience when communicating with IT.						
Ethical	Learning about the ethical implications of the electronic storage and transmission (sending/receiving) of personal information. How IT can affect the quality of life experienced by persons with disabilities and the responsibility to meet individuals' access requirements.						
Economic issues	Learning about making informed decisions about the choice, implementation, and use of IT depending upon cost and the efficient management of money and resources.						
Legislative issues	The main aspects of legislation relating to IT copyright design and patents act and other legislation as it applies to the use of IT e.g. the computer misuse act and data protection act (GDPR).						
British Values	Mutual Respect and The Rule of Law	Mutual Respect and The Rule of Law	Mutual Respect and The Rule of Law	Mutual Respect, Tolerance and The Rule of Law	Mutual Respect and The Rule of Law	Mutual Respect and The Rule of Law	
Gatsby 4	Digital graphics, Video and Audio editing, AR Developer	Digital graphics, Video and Audio editing, AR Developer	Spreadsheets, finance, accounting	Spreadsheets, finance, accounting	Spreadsheets, finance, accounting	Digital graphics designer, GUI design, software tester	