SUBJECT: CAMBRIDGE NATIONAL: INFORMATION TECHNOLOGIES

EXAMINATION BOARD: OCR

AUTUMN TERM - YEAR 10	SPRING TERM - YEAR 10	SUMMER TERM - YEAR 10

R060 Data manipulation using spreadsheet
Students will plan, design, create and test the spreadsheet solution to meet client requirements.
 	
Planning and designing the spreadsheet solution
1.1 Design tools
1.2 Human Computer Interface (HCI) design conventions and principles
   - Functionality
   - Types of outputs
   - HCI
 	
Creating the spreadsheet solution
2.1 Use spreadsheet tools and techniques to create the solution
- Data handling and manipulation
- Techniques to generate outputs
- User interface
 	
Students will test the solution based on user requirements.
Testing the spreadsheet solution
3.1 Test the user interface and the technical aspects of the spreadsheet solution.
	R060 Data manipulation using spreadsheet
	Students will evaluate the solution based on user requirements.
	
	Evaluating the spreadsheet solution
	4.1 Methods used to evaluate the success of the spreadsheet solution.
	
	R070 Using Augmented Reality (AR) to present information
	Introduction to AR
	1.1 Purpose and uses of AR
	1.2 Types of AR and user interaction
	
	Students will create a model prototype product to showcase how it can be used appropriately for a defined target audience to present information.
	Designing an AR model prototype
	2.1 Planning and design considerations
	2.2 Design Tools
	
	Creating an AR model version 1
	3.1 Triggers
	3.2 Layers/user interactions
	3.3 Information output
		R070 Using Augmented Reality to present information
		Students will refine a model prototype product, test and review the process of creating the AR model prototype.
		
		Creating an AR model – final version
		3.1 Triggers
		3.2 Layers/user interactions
		3.3 Information output
		
		Carrying out testing to ensure the AR model prototype works as intended
		4.1 Technical and user testing
		
		Review to include:
		4.2 Effectiveness of processes followed, and tools/techniques used, and lessons learnt
		
		R050 IT in the digital world
		1. Types of design tools
		2. Human Computer Interface (HCI) in everyday life (purpose, importance, use, hardware, software, user interaction)
		3. Data and testing (information and data, data use)

ASSESSMENT **R060:** coursework assignment set by OCR, internally assessed, externally moderated **STANDARD ASSESSMENT** Design tools Spreadsheet tools and techniques to create the solution	**ASSESSMENT** **R060 & R070:** coursework assignment set by OCR, internally assessed, externally moderated. **STANDARD ASSESSMENT** **R060**: Evaluation of spreadsheet solution. **R070:** AR model v1	**ASSESSMENT** **R070:** coursework assignment set by OCR, internally assessed, externally moderated. **R050**: exam (set and marked by OCR) **STANDARD ASSESSMENT** **R070**: Review of AR model prototype with consideration of the defined purpose **R050**: Test on topic areas 1, 2 and 3 above.

SUBJECT: CAMBRIDGE NATIONAL: INFORMATION TECHNOLOGIES

EXAMINATION BOARD: OCR

AUTUMN TERM - YEAR 11	SPRING TERM - YEAR 11	SUMMER TERM - YEAR 11
R050 IT in the digital world 3. Data and testing (validation and verification, data collection, storage and testing) 4. Cyber-security (threats, impacts, prevention measures) and legislation	**R050 IT in the digital world** 5. Digital communications (types, software, devices, channels connectivity, audience demographics) 6. Internet of everything (use of, application areas in everyday life)	**R050 IT in the digital world** 4Rs activities to preparation for final exam
ASSESSMENT **R050:** exam (set and marked by OCR) **STANDARD ASSESSMENT** Data and testing test Cyber-security test	**ASSESSMENT** **R050:** exam (set and marked by OCR) **STANDARD ASSESSMENT** Digital communications test Internet of everything test	**ASSESSMENT** **R050:** exam (set and marked by OCR) **STANDARD ASSESSMENT** Exam practise tasks