HIGHFIELDS SCHOOL



CURRICULUM OVERVIEW 2023-2024

SUBJECT: CAMBRIDGE NATIONAL: INFORMATION TECHNOLOGIES EXAMINATION BOARD: OCR

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	R060 Data manipulation using spreadsheet	R070 Using Augmented Reality to present information
Students will plan, design, create and test the	Students will evaluate the solution based on user	Students will refine a model prototype product, test
spreadsheet solution to meet client requirements.	requirements.	and review the process of creating the AR model prototype.
Planning and designing the spreadsheet solution	Evaluating the spreadsheet solution	
1.1 Design tools	4.1 Methods used to evaluate the success of the	Creating an AR model – final version
1.2 Human Computer Interface (HCI) design	spreadsheet solution	3.1 Triggers
conventions and principles • Functionality	BOTO Using Augmented Beglity (AB) to present	3.2 Layers/user interactions 3.3 Information output
Types of outputs	R070 Using Augmented Reality (AR) to present information	3.3 mornation output
HCI	Introduction to AR	Carrying out testing to ensure the AR model
• HCI	1.1 Purpose and uses of AR	prototype works as intended
Creating the spreadsheet solution	1.2 Types of AR and user interaction	4.1 Technical and user testing
2.1 Use spreadsheet tools and techniques to create	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
the solution	Students will create a model prototype product to	Review to include:
 Data handling and manipulation 	showcase how it can be used appropriately for a	4.2 Effectiveness of processes followed, and
Techniques to generate outputsUser interface	defined target audience to present information.	tools/techniques used, and lessons learnt
	Designing an AR model prototype	R050 IT in the digital world
Students will test the solution based on user	2.1 Planning and design considerations	1. Types of design tools
requirements.	2.2 Design Tools	2. Human Computer Interface (HCI) in everyday life
		(purpose, importance, use, hardware, software, user
Testing the spreadsheet solution	Creating an AR model version 1	interaction)
3.1 Test the user interface and the technical aspects	3.1 Triggers	3. Data and testing (information and data, data use)
of the spreadsheet solution	3.2 Layers/user interactions	
A CCCCCAATAIT	3.3 Information output	ACCECCAFNIT
ASSESSMENT BOACH CONTROLLER CONT	ASSESSMENT	ASSESSMENT
R060: coursework assignment set by OCR, internally assessed, externally moderated.	R060 & R070: coursework assignment set by OCR, internally assessed, externally moderated.	R070: coursework assignment set by OCR, internally assessed, externally moderated.
assessed, externally moderated.	internally assessed, externally moderated.	R050: exam (set and marked by OCR).
Standard Assessment	Standard Assessment	Standard Assessment
Design tools	R060: Evaluation of spreadsheet solution	R070 : Review of AR model prototype with
Spreadsheet tools and techniques to create the		consideration of the defined purpose
solution	R070: AR model v1	R050 : Test on topic areas 1, 2 and 3 above

HIGHFIELDS SCHOOL



CURRICULUM OVERVIEW 2023-2024

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 (information and data, use of data, 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 in preparation for final exam – for all topics: design tools, HCl, data and testing, cyber-security, digital communications, internet of everything
ASSESSMENT	ASSESSMENT	ASSESSMENT
R050: exam (set and marked by OCR)	R050: exam (set and marked by OCR)	R050: exam (set and marked by OCR)
Standard Assessment	Standard Assessment	Standard Assessment
Data and testing test	Digital communications test	Past exam questions – paper 1
Cyber-security test	Internet of everything test	Past exam questions – paper 2