

Information Technology

Course Title: Cambridge National in IT Level 1 / 2 J836	Exam Board: OCR	Specification code: 603/7115/8
How will students be assessed? ASSESSMENT: R050 – IT in the digital world – Written examination (end of Year 11) 1hr 30mins worth 40% of the overall qualification R060 – Data manipulation using spreadsheets NEA of 10–12 hours – internal assessment, worth 30% of the overall qualification R070 – Using Augmented Reality to present information NEA of 10–12 hours – internal assessment, worth 30% of the overall qualification Key Events: NEA R060 Summer Year 10. NEA R070 completed within Year 11 and R050 (Exam) Summer of Year 11		

Key Content
Half term 1 Introduction to the course Unit R050 – IT in the Digital World Topic 3.1 Data, data types, the use of data and relationship between data and information and 3.2 data in different contexts Topic 2 – Human Computer Interfaces in every day life – the purpose of HCI's, their importance, hardware and software considerations and interfaces Topic 3.1–3.4 – Data, data use and in different contexts, validation and verification – this will be taught as project based lessons Topic 5.1 – Introduction to Digital Devices & 5.3 types of digital devices ** elements of topic 1.1 design tools are discretely taught in these lessons within activities
Half term 2 Topic 1.1 Types of design tools and the software used to create these, original documents, suitability and context Topic 5.5 Audience and demographics

Topic 5.1 Digital Communications, the different types
Topic 5.2 software used to create digital communications
Topic 5.3 recap on digital devices
Topic 5.4 distribution channels, characteristics and suitability
** elements of topic 1.1 design tools are discretely taught in these lessons within activities

Half term 3

Topic 3.3 Data collection methods (primary & secondary) purpose, benefits and drawbacks
Topic 3.4 Storage and collection of data -types of storage locations, characteristics, benefits and drawbacks
Topic 3.5 Application of testing to a range of contexts - purpose of testing, test data, types of testing, technical testing and user testing
Revision of prior topics, mind maps, flashcards and exam style questions
Topic 4 Cyber security and legislation
Topic 4.1 Types of threats
Topic 4.2 Impacts of cyber security attacks
Topic 4.3 Physical and logical prevention measures and secure destruction of data
Topic 4.4 Legislation related to use of IT systems
Valentines Project - project will encompass above topics interleaving knowledge and skills acquired in previous lessons and using 1.1 design tools and spreadsheet software

Half Term 4

Unit R060 - Students start NEA - Data Manipulation using spreadsheet

This will be preceded with additional teaching and practical spreadsheet skills before the NEA commences

NEA - Part 1

Data Manipulation using spreadsheets - planning and designing the spreadsheet solution, creating the spreadsheet solution

Half Term 5

NEA - Part 2

R060- Data Manipulation using spreadsheets - creating the spreadsheet solution, testing the solution, evaluating the solution

Half term 6

Revision of R050 for end of Year 10 mock exam

Topic 6 Internet of Everything -meaning and use of IoE, the four pillars, interaction between four pillars, application areas in everyday life, purpose, benefits and drawbacks, suitability and security issues

