

	Half Term	Year 7	Year 8	Year 9	Year 10	Year 11
Autumn Term	1	7.1 Introduction: Passwords; Logon; Email; Bromcom; Shortcuts; Printing; Hardware; Software; Programming concepts.	8.1 Database: Setting up a database; Relationships; Data types; Queries; Forms; Data entry; Simple reports; Mail merge	9.1: Impact of ICT: Evolving technology; Impacts – environmental, privacy, cultural, ethical, legal; Cloud computing	Computer Science Unit 1 Computer hardware • Computer system • Input & output devices • Specialist devices • Converging & changing technology Unit 2 - Computational thinking • Algorithms • Program control flow • Handling data • Programming languages • IDE • Testing Vocational IT R050: Types of design tools R060: TA1 - Planning and designing the spreadsheet solution	Computer Science Unit 1 Computer hardware • Computer system • Input & output devices • Specialist devices • Converging & changing technology Unit 2 - Computational thinking • Algorithms • Program control flow • Handling data • Programming languages • IDE • Testing Vocational IT R050: Types of design tools R060: TA1 - Planning and designing the spreadsheet solution

					R070 TA2 - Designing an AR model prototype. Planning and design consideration	R070 TA2 - Designing an AR model prototype. Planning and design consideration .
	2	7.2 Online safety: Cyberbullying; Social media; Netiquette; Passwords; Digital footprint; Online privacy; Reporting concerns.	8.2 Logical Thinking: Problem solving with flowcharts; Sorting algorithms; Debugging; Code cracking; Logic gates	9.2 Image Editing: Bitmaps; Pixels; Vector graphics; Layers; Editing tools	Computer Science Unit 1 Systems Architecture • CPU • Performance • Memory • Secondary storage Unit 2 Practical programming skills • Fundamentals • Sequence • Selection • Iteration Vocational IT R050: Human Computer Interface in everyday life - Purpose, importance and use of HCI in application areas,	Computer Science Unit 1 Systems Architecture • CPU • Performance • Memory • Secondary storage Unit 2 Practical programming skills • Fundamentals • Sequence • Selection • Iteration Vocational IT R050: Human Computer Interface in everyday life - Purpose, importance and use of HCI in application areas,

					Hardware considerations, Software consideration, User interaction methods R050: Data & Testing - Information & data, Data use R060: HCI design conventions and principles, Functionality, Types of outputs, HCI navigation	Hardware considerations, Software consideration, User interaction methods R050: Data & Testing - Information & data, Data use R060: HCI design conventions and principles, Functionality, Types of outputs, HCI navigation
Spring Term	3	7.3 Spreadsheets: Basic functions and formulas; IF statements; Representing data; Formatting	8.3 Networks Hardware; Addresses & protocols; Packets; Routing; Performance; Privacy	9.3 Cybersecurity: You and your data; social engineering; Scripts, Bots, Threats	Computer Science Unit 1 Software • Application • User interface • Functions of OS • System utilities Unit 2 Data Representation • Units • Binary numbers • Binary arithmetic • Hexadecimal •	

					Characters • Images • Sound • Compression Vocational IT R060: Creating the spreadsheet solution - Data handling & manipulation, Techniques to generate the outputs, User interface R060: Testing the spreadsheet solution , Test the user interface and technical aspects of the spreadsheet solution R060: Evaluating the spreadsheet solution- Methods used to evaluate	
	4	7.4 Cryptology & Flowol: Flowcharts; Cryptology; Barcodes; E-commerce	8.4 Websites: HTML – Notepad; Language; Tags; Key commands; Hypertext Web authoring - planning; design;	9.4 Spreadsheets: More advanced functions and formulae; Formatting; What if modelling; Vlookup; Macros	Computer Science Unit 1 Networks • Internet • WAN • LAN • Wireless networking • Client	Preparation for exam (retakes) May/June. Students will need to understand the



			creation; development; testing		server • P2P networks • Standards, Protocols & Layers Unit 2 Algorithms • Searching • Sorting Vocational IT R060: NEA Assessment (working on) R070: Augmented Reality (AR) - Purpose and uses of AR, Types of AR and user interaction, Devices used with AR	purpose and content of pre-production, Completion of any outstanding coursework
Summer Term	5	7.5 Introduction to programming : Sequence-Block based programming	8.5 Data Representation Binary numbers; Data storage; Hex and binary addition; Storing text & images; Compression	9.5 AI Rights, safety and well-being; Daily impact; Limitations; Generative AI; Chatbots; Safety protocols	Computer Science Unit 1 Network Security & Systems software • Network threats • Preventing vulnerabilities • OS • Utility software	



					Unit 2 Practical programming skills • Arrays • - Procedures • - Functions • - Records • - Files Vocational IT R060: NEA Assessment (working on) R060: NEA Assessment (submit for moderation) R050: Data and testing , Data collection methods, Storage of collected data R050: Digital communications - Types, Software, Digital devices, Distribution channels, Audience demographics	
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	6	7.6: Introduction to text based programming: (Turtle, Kodu, Python)	8.6 Animation & Video editing: File type; Frame rate; Transition		Computer Science Problem solving consolidation project Vocational IT R050: Internet of Everything (IoE) Use of IoE, Application areas in everyday life R070: Designing an AR model prototype , Planning and design consideration, Design tools R070: Creating and AR model prototype, Triggers, Layers/ user interaction, Information output	
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