

ICT - incorporating Functional Skills						
	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Year 7						
Year 8	Networks Interacting with ICT for a given purpose What is a network? Topologies Networking hardware and Software Wired and wireless networks Identifying if a network is working correctly Internet, internet services and the world wide web Threats to data Assessment	E-Safety: digital citizenship ICT based communications Fake news and how to identify it, biased writing, echo chambers and filter bubbles. Cyberbullying Purpose of emotional manipulation Divisions in society and how these are created Hate speech Keeping safe when using sites Positive use of the internet Assessment	Cryptography History of Cryptography- Ceasar cypher Solving computational problems. Symmetric & Asymmetric-key cryptography. Assessment	Microsoft Applications Word-page layout, formatting, wrapping text and inserting images Excel -inputting data into a spreadsheet, creating formulae, formatting, using functions in a spreadsheet, sorting & filtering Creating graphs in a spreadsheet Absolute and relative cell references Create a spreadsheet Assessment	Coding Microbits, input & output devices, meeting needs & solving problems 0 & 1 representation Programming & hardware interaction Flow diagrams Creating and programming Experimenting with LED's, motors, LDR's and capacitors Switching, conditional formatting, sound & animation Assessment	Databases & related terminology Creating & using databases Creating queries to find specific data Selecting, sorting & filtering data for a specific task Logical reasoning Relational databases Assessment
Year 9	Microsoft Excel Using functions & formula's Inputting data & creating a basic formulae Formatting spreadsheets Sorting & filtering Producing graphs in a spreadsheet Absolute and relative cell references Modelling data Creating a spreadsheet Assessment	Microsoft applications -PowerPoint, Word & Outlook Creating a presentation using the 'design' and 'new slide' functions Insert images, text boxes & shapes Protecting documents Emailing Entry Level exam	Flowcharts, Microbits, & coding using Code.org courses Creating and programming Programming MOVE mini mk2 buggy kit Using programmes to meet needs & solve problems (Entry Level exam)	Binary, Hex & Calculations Processing numbers Revision of binary, logic and truth tables Consolidation of Skills & Preparation for Entry 1, Level 1 and 2 Assessments	Databases - revision ICT FS Entry Level exam (delivered in lessons) Binary + calculations 1 Assessments	Cryptography & computational thinking Understanding & creating a flow chart to pre program Create a cyphering program Spotting patterns of repetitions Assessments
Year 10	Baseline Assessment Using ICT to plan & organise work Using of the internet Conducting research The difference between a search engine and a website Understand copyright Using Excel to enter, develop & refine information Creating a chart to fulfill a purpose	Microsoft Word, Powerpoint and Excel Selecting and using the software applications to meet needs and solve problems Applying a range of formatting and layout techniques to meet needs & purposes Intergating information Using ICT tools to check accuracy Evaluation of use of ICT tools for a specific task	Outlook Creating & sending emails using appropriate language and formats Attaching files Managing & storing information Printing	Consolidation of skills Practice activities and tests	Consolidation of skills Level 1 Examination	Introduction to Level 2 work

Year 11	Internet & internet research	Excel Level 2	Outlook	Consolidation & extension of skills	Consolidation & extension of skills	Consolidation & extension of skills
	Excel Level 1 & 2 Conducting research using the internet Search techniques to locate and select information Copyright & constraints on the use of information	Microsoft applications Using field names and data types to organise information Processing & analysing data to draw conclusions Applying image formatting techniques Using IF and V-Lookup	Creating & sending emails using appropriate language and formats Attaching files Using collaborative tools Managing & storing information to enable efficient information retrieval Printing	Coding using Java script/Python	Coding using Java script/Python	Coding using Java script/Python