

Knowledge ----- Skills

Topic	Emergent	Developing	Secure	Excel
Year 7				
E-Safety	Understand keeping a password safe and remembering it	Understanding basic netiquette, know how to save files properly and find them again	Able to describe steps to prevent cyber-bullying (reporting, tell an adult)	-
Scratch Programming	Create a basic plan and a simple game	Allows users to control sprites and a simple evaluation with suggestions for improvements	Create a simple flowchart, use of variables in the game	Create an advanced game using features such as operators, using multiple levels
Lifting the Lid	Briefly describe how computers are classified	Be able to describe different parts of the computer system and a simple binary conversion	Explain different parts of a computer system and what they do.	Be able to evaluate strengths and weaknesses of computer systems
School Disco	Be able to create some simple multimedia products with help	Creating products with audience and purpose.	Ensure products meet the needs of audience and purpose	Include further advanced features in products (i.e. editing), designs for products and evaluate overall strengths and weaknesses.
Algorithms	Put algorithms in to a sequence	Create simple flowcharts/pseudocode	Including loops and selection	Complex algorithms that combine more than one pathway or are parallel for example.
Year 8				
Computer Networks	List some of the hardware and software used in a computer system	Classify different types of network (topologies/LAN/WAN), describe some threats to network and how to deal with them. Be able to do a truth table for one gate	Binary Addition and be able to create logic truth tables for more than one gate.	Explain with detail how the internet works including protocols.

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APP Development	Complete a simple APP with guidance	Produce a basic design for the APP and create an APP with consideration for audience and purpose	Detailed designs which explain the features of the APP, good awareness of audience and purpose, some advanced features, an ability to evaluate the APP	Use some HTML/JavaScript code in the APP.
Café Project	Able to create a simple spreadsheet with use of calculations	Basic formulas used in Excel	Functions and formulas used, Graphs created based on budgeting	Complex functions and formulas to enable students to model scenarios. An ability to forecast and make assumptions/suggestions based on budgets.
Python Programming	Create simple program with some help	Create a simple program with a loop or selection	Create a program with some advanced features such as timers, sub-routines	An ability to debug and fix errors
HTML and CSS	Ability to create a basic HTML page using Notepad++	Ability to add image and hyperlinks. Identify clients needs and purpose of websites	Researching own tags and adding extra features to the website. Attaching CSS. Able to clearly identify client and audience needs.	Including elements of JS - accessibility
Year 9				
VB Programming	Create a simple program that works with some guidance	Create a program without assistance. The program should compile and create an executable	Use IF's or loops (selection or iteration) to create a simple program.	Use of file handling in their program is evident
GM Programming	Follow a tutorial to create a simple game	Follow and create a more complex game	Add extra features to the existing game	Create their own game with individual features
IT Society	List Some jobs in the IT industry	Describe how IT skills can be beneficial to someone in the working world	Analyse the use of IT skills in industry and explain the use of IT in detail.	
Multimedia Project	Able to create multimedia products for a given purpose	Ability to identify target audience and purpose and produce working	Products will be designed clearly with camera shots, angles and movements	Products will include advanced features, professional shots will be

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		multimedia products using some key camera angles/shots/movements	included – meeting audience needs and purpose. Evaluation of strengths and weaknesses	included in work – an evaluation in detail will refer to audience, purpose, strengths, weaknesses and areas for improvement – all using technical terms
JavaScript Programming	Able to add simple JS to HTML with guidance	Create a JS program which has been made independently.	Create a JS form which a user can enter date into. The Form is functional on the website.	An ability to explain the code, what it does, how it improves the effectiveness of the website. Evaluates their own programming to discuss how they could improve it further.