



Curriculum Map - KS3 Computing

	Subj	ect: Computing		Year Group: Year 8		
	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Content Descriptive/propositional knowledge	E-Safety	Understanding Computers	Graphics	HTML & Web Development	Computational Thinking	Intro to Python
'knowing that'	know that we have a responsibility to protect ourselves and others when using online environments.	know that computers are made up of digital and many physical components	know different forms that digital graphics can take, and that different graphics can be used for different purposes.	Know how websites are planned, structured, designed and styled.	know what binary is and how it is used in computing knowing how to break problems down	know that programming languages can be used to create programs for computers to perform certain tasks.
Skills Ability knowledge	Understand the specific issues relating to :	Knowing how:	Knowing how:	Knowing how:	Knowing how:	Knowing how:
'knowing how'	 Cyberbullying Online Predators Inappropriate Content Damaged Reputations Publicising Personal Information 	* Software differs from hardware * How different hardware components of a PC work * Input and Output devices differ * Data is stored	 * Bitmap and Vector images are structured * To combine different images to make a logo * To combine images, graphics and text * To use a graphics editor to a fundamental degree 	 * HTML code looks and is used to structure web pages * CSS code looks and is used to style web pages * Hyperlinks and Navigation systems are used * Text, Graphics, images and links can enhance web pages * To design a website 	 * Computers can use binary input in complex ways * Logic gates work * Problems can be broken down in to smaller, simpler pieces * Algorithms can be developed to solve problems or perform tasks. 	* To run simple python programs * To plan algorithms using pseudocode * To use different data types appropriately (string, integer etc.) * Syntax and Logic errors differ * Comments can document and explain sections of code

Key Questions	What is cyberbullying	What are the hardware	How are various types of	How can HTML and CSS	What is binary and	How can
key questions	and what can be done	and software components	data(including text,	be used to structure	why do computers	programming
	about it?	that make up computer	sounds and pictures)	and style a website?	use it?	languages and
			represented and	and style a website!	use it!	algorithms be used
		systems,				•
	How can I protect myself	and how do they	manipulated digitally?	How can I design a	How do computers	to solve a variety of
	when using the internet?	communicate with one		website to meet the	'think'?	computational
		another and with other	How can different types	needs of a particular		problems?
	How can I take	systems?	and styles of graphics	audience?	How can we	
	advantage of digital tools		appeal to different		manage complex	What are the
	safely?	How is data stored and	audiences?	How can I use images,	problems by	different key data
		used within a computer		text and links to	breaking them	structures and
		system?		enhance the quality of	down into simpler	when should they
				my web pages?	ones?	be used?
Assessment	5 week formative	6 week formative	5 week formative	5 week formative	6 week formative	6 week formative
	worksheets	worksheets	worksheets	worksheets	worksheets	worksheets
	E-safety online test (40 marks)	Understanding Computers online test (40 marks)	Peer-assessed/formative movie poster project.	Website portfolio project (Assessed on a basic, intermediate, advanced, expert scale).	Computational Thinking online test (40 marks)	Python programming project (Assessed on a basic, intermediate, advanced, expert scale.)
Literacy/ Numeracy/	Development of	Development in	Development in	Development in	Development in	Development in
SMSC/ Character	resilience, kindness &	communication/literacy	communication/literacy	communication/	communication/	communication/
	respect and peer support.	skills	skills	literacy skills	literacy skills	literacy skills
		Numeracy skills through			Developing logical problem	Developing logical problem
		calculating/converting Binary.			solving/calculatio n skills.	solving/calculatio n skills.