Curriculum Map 2021/2022



YEAR 7 COMPUTING

The Year 7 curriculum follows the National Curriculum strands of Digital Literacy (DL), IT (IT) and Computer Science (CS). The plan is designed to build understanding of the principles of Computing and improve IT skills with a range of activities. It challenges students to think creatively about what they are learning and how it can be applied in the real world whilst preparing them for KS4, Post 16, higher education and the wider world.

	Autumn 1a	Autumn 1b	Spring 2a	Spring 2b	Summer 3a	Summer 3b
CONTENT	Getting Started : an	Internet Safety, Cyber	Introduction to	Computing Components:	Programming in Scratch:	Programming in Scratch:
	introduction to the school	Security and Encryption:	Spreadsheets: (IT)	(CS)	(CS)	(CS)
Declarative /	network and user area:	(DL)	- How to write	- The function of input	- How to use the	- Scratch project to
core / powerful	(DL)	- Look at a range of	basic formulae	and output devices	concepts of	design and create a
Knowledge –	 Introduction to logging 	malware and the effects	- The concept of	- Different types of	sequencing, selection	game using the skills
'Know What'	into the school network	of they have	replication and the uses	memory and storage	and iteration	learnt in term 3a
	- The process of sending	 What precautions to 	of relative and absolute	and their use		
	and receiving emails,	take to maintain safety	cell referencing			
	how to save, rename	online	- How to name cells and			
	and organise files	- The role of encryption	ranges within a			
	- The process of accessing	in maintaining safety	spreadsheet			
	the cloud and safe	online	- How to write a range of			
	storage of data	 Know about a range of 	basic functions			
	 Key principles of 	ciphers	including SUM,			
	internet safety		AVERAGE, MAX, MIN,			
	- The qualities of vector		COUNT and IF			
	and bitmap images		- How to use conditional			
			formatting			
			- How to use data in a			
			spreadsheet to create			
			graphs and charts			
Skills	Log into the school's	Demonstrate safe	Use a range of basic	Be able to identify the	To be able to create	To be able to create a
	network proficiently	practices when using the	formulae to manipulate	different types of input	working programs in	game to meet the
Procedural	Send and receive emails	internet	data	and output devices and	Scratch using selection,	requirements set out in
Knowledge –	successfully and safely,	Use a range of ciphers and	Use conditional	their uses.	sequencing and iteration	the project brief
'Know How'	using appropriate	decrypt text	formatting	Be able to identify the	To be able to analyse the	
	language and content		Create graphs and	different types of storage	requirements of a	
			charts to represent	and its uses.	program and to identify	

	Organise files and		different types of		the processes needed to	
	folders to facilitate ease		information		solve a problem	
	of access and use				Joine a problem	
	Demonstrate safe					
	practices when using					
	the Internet					
	Be able to create and					
V 0	manipulate images	Comment in the characters and the characters are the characters and the characters are th	Comment information the comment	C	Carrieridantification	Communication with the communication
Key Questions	Can you identify the key	Can you identify the key	Can you identify the most	Can you identify the	Can you identify the	Can you identify the needs
	principles of internet	ciphers and how to	appropriate functions to	correct input and output	difference between	of the project?
	safety? Can you identify	decrypt them?	use when developing a	devices to use in a range	selection, sequencing and	Can you identify the
	the most appropriate	Can you list the different	spreadsheet for a	of different situations?	iteration?	importance of managing
	tools to use when editing	types of malware?	particular purpose?	Can you identify the	Can you identify a range	your time to complete
	an image?	What are the key	Can you identify the most	correct types of storage	of problems that could	your project?
		precautions to maintain	appropriate chart or graph	and when they should be	affect your program?	
		safety on the internet?	to display different types	used?		
			of information?			
Assessment	Mid-module assessment	Mid-module assessment	Mid-module assessment	Mid-module assessment	Mid-module assessment	Final game creation
	and end of module	and end of module	and end of module	and end of module	and end of module	
	assessment based upon	assessment based upon	assessment based upon	assessment based upon	assessment based	
	the use of the schools	using computers safely	using spreadsheet	input and output devices	selection, iteration and	
	network, safe and	and confidently	proficiently and how to	and storage devices	sequencing	
	appropriate use of the		handle data in a variety of			
	internet		different situations			