Year	Coding and	Spreadsheets	Internet and Email	Art and Design	Making Music	Databases and	Writing and	Communicating
Group	Computational Thinking					Graphing	Presenting	and Networks
Year 1	Grouping and	Spreadsheets	Online Safety and			Pictograms	Animated Story	
	Sorting	+ Open a	Exploring Purple Mash			+ Show different	Books	
	+ Sort different	spreadsheet	+ Be introduced to			data using	+ Add text and	
	items based on	+ Add data into a	features of purple mash			pictograms	drawings to a	
	characteristics	cell	+ Navigate around the			+ Record results	page	
	Lego Builders	+ Use count tool	menu and tools pages			using a	+ Add audio to a	
	+ Know	to total data and	Technology Outside of			pictogram	page	
	algorithms are	values	School			digitally	+ Add pages	
	precise		+ Know technology is				+ Use copy and	
	instructions		widespread in society				paste to make	
	+ Follow						editing more	
	instructions in						efficient	
	algorithm style							
	Maze Explorers							
	+ Understand							
	directions and							
	numbers of							
	movements							
	+ Move a turtle							
	around a maze							
	Coding							
	+ Be introduced							
	to code blocks							
	+ Understand							
	objects and							
	actions							
	+ Know events							
	can make things							
	happen							
	+ Use a plan for a							
	simple algorithm							

Year	Coding and	Spreadsheets	Internet and Email	Art and Design	Making Music	Databases and	Writing and	Communicating
Group	Computational					Graphing	Presenting	and Networks
	Thinking							
Year 2	Coding	Spreadsheets	Online Safety	Creating	Making Music	Questioning	Presenting	
	+ Know an	+ Know the	+ Be aware of searches,	Pictures	+ Use	+ Know	Ideas	
	algorithm is	difference	email and websites	+ Use 2paint to	2sequence with	pictograms can	+ Experience	
	simple	between rows	+ Know what digital	create different	different	present simple	idea presented	
	instructions	and columns	footprint is and how to	colours, brush	sounds	information	as quiz, mind	
	+ Use collision,	+ Use automatic	reduce it or keep it more	sizes and	+ Conduct a	+ Identify a	map and e-book	
	different object	total tool within	private	backgrounds	small sound	binary tree	+ Use 2connect	
	types and	rows and	Effective Searching	+ Use	effect or song	+ Understand	to make a fact-	
	buttons to create	columns	+ Search using key terms	pointillism to	with at least 2	yes/no	file	
	a programme		+ Identify parts of web	show an image	instruments	questions help		
	+ Use debugging		search page		+ Use volume	us eliminate		
	to apply fixes to				controls	characteristics		
	problems within							
	code							

NC Links KS1	Coding and Computational Thinking	Spreadsheets	Internet and Email	Art and Design	Making Music	Databases and Graphing	Writing and Presenting	Communicating and Networks
	+ understand what algorithms are; how they are implemented as programs on digital devices; and that programs execute by following precise and unambiguous instructions + create and debug simple programs + use logical reasoning to predict the behaviour of simple programs	+ use technology purposefully to create, organise, store, manipulate and retrieve digital content	+ recognise common uses of information technology beyond school + use technology safely and respectfully, keeping personal information private; identify where to go for help and support when they have concerns about content or contact on the internet or other online technologies.	+ use technology purposefully to create, organise, store, manipulate and retrieve digital content	+ use technology purposefully to create, organise, store, manipulate and retrieve digital content	+ use technology purposefully to create, organise, store, manipulate and retrieve digital content	+ use technology purposefully to create, organise, store, manipulate and retrieve digital content	+ use technology purposefully to create, organise, store, manipulate and retrieve digital content

Year	Coding and	Spreadsheets	Internet and Email	Art and Design	Making Music	Databases and	Writing and	Communicating
Group	Computational					Graphing	Presenting	and Networks
	Thinking							
Year 3	Coding	Spreadsheets	Online Safety	Simulations		Branching	Presenting	Touch Typing
	+ Read and	+ Create a table	+ Know how to	+ Know		Databases	+ Know different	+ Understand
	explain a	and add data	communicate	advantages and		+ Know a branch	types of	names of fingers
	flowchart	+ Use more than,	throughout the internet	disadvantages		has a yes/no	software for	used for touch
	+ Use 'after' and	less than and	+ Understand not	of simulations		response	presenting	typing
	'ever' timer	equals signs in	everything is true on the	+ Analyse		+ Create a class	+ Present	+ Use both hands
	commands	spreadsheet	internet	choices made		branching	written and	to type different
	+ Understand	+ Describe a cell	+ Know why we have age	within		database	artwork in	words, phrases
	the turtle is the	location	ratings for different apps	simulations		+ Use different	different ways	and sentences
	object that		and content	+ See patterns		multimedia	throughout the	
	moves		Email (through 2email)	happening		within a	year	
	+ Use a scene to		+ Open an email and	within		branching		
	make something		type a response	simulations		database		
	interactive		+ Know how to stay safe			Graphing		
			on an email			+ Add data into		
			+ Attach an item to an			a graph		
			email			+ Present results		
			+ Respond to email			in different		
			communications and			graphs		
			begin to use					
			conversations to					
I			respond					

Year	Coding and	Spreadsheets	Internet and Email	Art and Design	Making Music	Databases and	Writing and	Communicating
Group	Computational					Graphing	Presenting	and Networks
	Thinking							
Year 4	Coding	Spreadsheets	Online Safety	Animation	Making Music		Writing for	
	+ Plan an	+ Use formatting	+ Know security symbols	+ Understand	+ Identify digital		Different	
	algorithm for a	to change box	seen on various devices	how animation	sounds		Audiences	
	scene created	backgrounds,	and online services	is created as a	+ Create a		+ Select and use	
	+ Use X and Y	currency or	+ Know what malware is	series of	rhythm using		different fonts,	
	properties	decimal places	and what a virus is	drawings	Busy Beats and		sizes and styles	
	+Use the 'if/else'	+ Use timer and	+ Understand plagiarism	slightly	2Sequence		+ Use external	
	statement for if	random number	in terms of copying and	different			sources to	
	something is met	tools in	researching	+ Know what			create a story	
	+ Use 'repeat	spreadsheets	+ Make informed choices	the onion skin			+ Write a	
	until' statement	+ Create a line	about how free time is	tool does in			persuasive letter	
	+ Code a variable	graph in a	used when relating to	animation			for part of a	
	for a number	spreadsheet	digital content	+ Know what			campaign	
	such as a timer		consumption	stop motion				
	Logo		Effective Search	animation is				
	+ Know and run		+ Structure search	and create a				
	common		queries to narrow	film of their				
	instructions in		searches	own				
	logo		+ Understand credibility					
	+ Understand		within search results					
	the pu and pd							
	command							
	+ Use							
	procedures to							
	draw shapes,							
	flowers or							
	crystals							
	Hardware							
	Investigators							
	+ Know the							
	function of							
	computer parts							

	Coding and	Spreadsheets	Internet and Email	Art and Design	Making Music	Databases and	Writing and	Communicating
•	Computational Thinking					Graphing	Presenting	and Networks
TI Year 5 C + ww mr ef + va a +, va a +, to in a ww pr + lo co	Computational	Spreadsheets + Create simple formula using the formula wizard + Use the count tool to find how many values in a spreadsheet	Internet and Email Online Safety + Learn the SMART rules for online safety + Use keywords to find relevant information when searching + Know what makes a good password and understand the importance of changing passwords between services	Art and Design Game Creator + Explain what makes a computer game successful + Upload images or use drawing tool when coding + Write instructions which allow people to play the game successfully + Evaluate the impact of the game created 3D Modelling + Explore different viewpoints within 2Design + Alter shapes and points of models + Create a 3D model from a 2D design	Making Music	Databases and Graphing Databases + Know how to search a database with given characteristics + Create a class database + Understand what a database field is and add one to their database	Writing and Presenting Concept Maps + See value when using a concept map for visualisation + Create a concept map based on key features such as nodes and connections + Present a concept map to an audience	Communicating and Networks

Year	Coding and	Spreadsheets	Internet and Email	Art and Design	Making Music	Databases and	Writing and	Communicating
Group	Computational					Graphing	Presenting	and Networks
	Thinking							
Year 6	Coding	Spreadsheets	Online Safety				Blogging	Networks
	+ Plan ideas	+ Create	+ Be aware of risks				+ Know what a	+ Know what is
	using different	advanced	online when using				blog is and why	referred to as the
	methods	formula to	search engines and				people might	internet is the
	+ Use code	answer a variety	digital content				write one	World Wide Web
	efficiently with	of mathematical	+ Understand the impact				+ Give the key	+ Explore the
	functions,	questions	of online behaviour for				features of a	school network
	repetition and	relating to	themselves and others				blog	and how
	two-way	probability,	+ Make informed choices				+ Create a blog	everything is
	selection	money and real-	about how children use				for a specific	connected
	+ Organise code	life situations	their free time with				purpose to	+ Investigate
	in tabs		respects to screen time				engage a	who Tim
	+ Debug using		and online content				community	Berners-Lee was
	logical reasoning		consumption				+ Post	and how he
	Text Adventures		+ Know the SMART rules				comments and	impacted the
	+ Record		for online safety and				understand the	digital world
	experiences of		apply them when using				approval	today
	code to utilise		any digital device				process for	
	for later projects						moderators of	
	+ Experience						some blogs	
	story and map-						Quizzing	
	based text						+ Know the	
	adventures						different	
							question types	
							in 2Quiz	
							+ Understand	
							how the ability	
							of the audience	
							impact	
							questions	
							+ Use 2DIY and	
							2Quiz to create	
							a quiz show	

NC Links KS2	Coding and Computational Thinking	Spreadsheets	Internet and Email	Art and Design	Making Music	Databases and Graphing	Writing and Presenting	Communicating and Networks
	+ design, write and debug programs that accomplish specific goals, including controlling or simulating physical systems; solve problems by decomposing them into smaller parts + use sequence, selection, and repetition in programs; work with variables and various forms of input and output + use logical reasoning to explain how some simple algorithms work and to detect and correct errors in algorithms and programs	+ select, use and combine a variety of software (including internet services) on a range of digital devices to design and create a range of programs, systems and content that accomplish given goals, including collecting, analysing, evaluating and presenting data and information	+ use search technologies effectively, appreciate how results are selected and ranked, and be discerning in evaluating digital content + use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact.	+ select, use and combine a variety of software (including internet services) on a range of digital devices to design and create a range of programs, systems and content that accomplish given goals, including collecting, analysing, evaluating and presenting data and information	+ select, use and combine a variety of software (including internet services) on a range of digital devices to design and create a range of programs, systems and content that accomplish given goals, including collecting, analysing, evaluating and presenting data and information	+ select, use and combine a variety of software (including internet services) on a range of digital devices to design and create a range of programs, systems and content that accomplish given goals, including collecting, analysing, evaluating and presenting data and information	+ select, use and combine a variety of software (including internet services) on a range of digital devices to design and create a range of programs, systems and content that accomplish given goals, including collecting, analysing, evaluating and presenting data and information	+ understand computer networks including the internet; how they can provide multiple services, such as the world wide web; and the opportunities they offer for communication and collaboration