Pro	gression of Skills	Subject: Computing					
	EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Coding and computational thinking	I can explain what the different buttons do on the Bee Bot. I can give a Bee Bot commands to make it move. I can follow a simple sequence of instructions (algorithm) With the help of an adult, I can debug instructions when they go wrong.	I can explain what an algorithm is. I can explain why an algorithm needs to be accurate (right). I can work out what is wrong in a simple algorithm (steps out of order) I can write a simple algorithm for a recipe. I can use buttons to move my character. I can plan my moves several steps at a time towards the goal rather that one step at a time. I can make logical attempts to fix the code. I can design a program that controls the look and actions of objects. I can read the code one line at a time.	I can explain that an algorithm is a set of instructions to complete a task I know I need to carefully plan my algorithm so it will work when I make it into code. I can design a simple program using 2Code that achieves a purpose. I can find and correct some errors in my program. I can say what will happen in a program. I can spot something in a program that has an action or effect (does something).	I can design and code a program that follows a simple sequence. I can experiment with the use of timers to achieve delay effects in my program. I understand the difference between timer-after and timer-every commands I can explain the choice of commands I have included in my program and what they achieve I can use the repeat command to program a turtle to draw a square. I am beginning to understand how code is structured and can apply this knowledge when debugging. I can integrate multimedia components such as sounds, animation and images into my coding.	I can turn a real-life situation to solve into an algorithm, using a design that shows how I can accomplish this in code. I can use repetition in my code. For example, using a loop that continues until a condition is met such as the correct answer being entered. I can use timers within my program designs more accurately to create repetition effects. For example, I can create a counting machine. I can use selection (decision) in my programming. For example, using an 'if statement' for a question being asked and the program takes one of two paths. I can use variables within my program and know how to change the value of variables. I can use the user inputs and output features within my program, such as 'Print to screen' I can identify errors in my code by using different methods, such as steeping through lines of code and fixing them. I can read programs that contain several steps and predict the outcomes with increasing accuracy.	I can make more complex real-life problems into algorithms for a program. I can test and debug my programs as I work I can convert (translate) algorithms that contain sequence, selection and repetition into code that works. I can use sequence, selection, repetition, and some other coding structures in my code I can organise my code carefully for example, naming variables and using tabs. I know this will help me debug more efficiently I can use logical methods to identify the cause of any bug with support to identify the specific line of code.	I can turn a complex programming task into an algorithm. I can identify the important aspects of a programming task (abstraction). I can decompose important aspects of a programming task in a logical way, identifying appropriate coding structures that would work I can test and debug my program as I work on it and use logical methods to identify a cause of a bug. I can identify a specific line of code that is causing a problem in my program and attempt a fix I can translate algorithms that include sequence, selection and repetition into code and nest these structures within each other. I can use inputs and outputs within my coded programs such as sound, movement and buttons and represent the state of an object I can interpret (understand) a program in parts and can make logical attempts to put the separate parts together in an algorithm to explain the program. I can turn a simple story with 2 or 3 levels of decision making into a logical design using 2Connect. I can apply my knowledge of coding and the fundamental order of instructions through creating my own story-based adventure game.

Communication and networks				I understand that network and communication components can be found in many different devices which allow them to join the internet. I recognise the main component parts of hardware which allow computers to join and form a network.	I know the importance of computer networks and how they help solve problems and enhance communication. I recognise the main dangers that can be perpetuated via computer networks.	I can explain the difference between the internet and the World Wide Web. I can explain what a WAN and LAN is and describe the process of how access to the internet in school is possible.
Spreadsheets	I can use 2Calculate to create a simple spreadsheet. I can enter data into cells. I can use the image tool box to add clipart.	I can open, edit and save sheets. I can create a spreadsheet which includes a graph based on simple data collected. I can produce a spreadsheet which can help me to solve simple mathematical puzzles I can record collected data into a table and use this data to create a block graph manually.	I can create a table of data on a spreadsheet and can use this to automatically create charts/graphs from data I can select the most suitable type of chart to use for my data, edit headers and apply axis labels. I can collect and enter data within 2Calcualte. I can use the graphing tool to create suitable graphical representations of the data I have within a table.	I can use 2Calculate to design a graph to solve a mathematical problem. I can use spreadsheets to solve and check mathematical problems and concepts. I can add a formula to a cell to automatically make a calculation in that cell using the 'formula Wizard. I can use spreadsheets to collate data and extract information from it to answer questions	I can create a formula using 2Calculate that converts metres into centimetres I can convert data into a graphical format I can use 2Calculate to produce functional spreadsheets with a clear purpose.	I can create a spreadsheet and collect data using 2Calculate that answers a mathematical problem relating to probability. I can use a spreadsheet to model a real-life situation I can create spreadsheets which contain visual elements such as suitable graphs which represent their data. I can use advanced features such as the 'formula wizard' for efficiency and know the best layouts to use to support easier interrogations of data. I can understand and use the new vocabulary relating to spreadsheets With direction, I can use flash fill, convert text to tables, split cells, and sort for organising and presenting my data in a spreadsheet.

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	I can talk about what I use	I understand what is meant	I understand how to use	I understand the importance	I can help others to	I can explain what personal	I can demonstrate safe and
	the internet for.	by technology and can	the Purple Mash search bar	of a secure password and not	understand the importance	information is and know	respectful use of a range
		identify examples in and	and know the	sharing this with anyone	of online safety and apply	strategies for keeping this	of different technologies
	I always ask a grown up	out of school.	implications of	else.	my knowledge through the	safe.	and online services.
	before I go on the internet.		inappropriate searches.	I understand the negative	creation of online safety		
		I understand the		implications of failure to	resources.	I can search precisely	I can identify more
	I can check with a trusted	importance of online	I can see where technology	keep passwords safe and		when using a search	discrete inappropriate
	adult before I try a new	safety by keeping my	is used at school such as in	secure and can suggest	I can give some examples	engine. For example, I	behaviours online. For
	website.	Purple Mash username and	the office or canteen.	examples of good and poor	of things to look out for in	know I can add additional	example, someone who
		password private.		passwords.	an email to ensure that it	words or removes words to	may be trying to groom
	I can talk about and		I can explain what a digital	pusswords.	from a valid source and is	help find better results.	me or someone else.
	explain the SMART rules	I can explain what the	footprint is.	I can assess the accuracy of	not a phishing scam email.		
	with my teacher	meaning of private		the information on a website		I can explain in detail how	I can use critical thinking
		information and show this	I can give reasons for	and make decisions on	I can explain what can be	accurate, safe and reliable	to help me stay safe
	I know my username and	in computing lessons.	keeping my password safe.	whether it is a trustworthy	learnt by looking at the	the content is on a	online.
	password for my Purple			source of information.	padlock details for a	webpage.	
	Mash Account.	I can save my work, using	I can express the good and		website.		I know the value of
		a name that I will	bad sides of digital	I have gained an		I have a secure knowledge	protecting my privacy and
	I can use my Magic	remember, to my personal	technology.	understanding that it is not	I can reflect upon positive	of online safety rules	others online
	Square to log in to a	work folder.		acceptable to use the work	and negative aspects of a	taught at school.	
	Chromebook in school.		I can share work and	of others or post images of	digital footprint and can	_	
nai		I can communicate and	communicate	others without consent.	give examples of the care I	I can demonstrate the safe	
Εı		behave appropriately when	electronically - for		would take when sharing	and respectful use of	
pu		I am online.	example using 2Email or	I can express the need to tell	online in relation to my	different online	
t a			the	a trusted adult if I am upset	own and others' digital	technologies and online	
Internet and Email			display boards.	by anything online.	footprint.	services	
ter				I can list a range of ways the	-		
In			I can find information I	internet can be used to	I can explain what	I always relate appropriate	
			need using a search	provide different methods of	malware is and what it	online behaviour to my	
			engine.	communication.	does.	right to have personal	
			-			privacy.	
			I can successfully find the	I can exchange email	I can give reasons for		
			solutions for answers to a	communications using	limiting screen time.	I know how to not let my	
			problem or quiz using a	2Email.	-	mental wellbeing or others	
			search engine		I can explain what	be affected by use of	
1			-	I can open and respond to an	plagiarism is	online technologies and	
			I can report unkind	email, altering the size of the	-	services.	
			behaviour and things that	font, as well as the	I can explain what I need		
			upset me online, to a	formatting of the text	to do to report		
			trusted adult.		cyberbullying or		
				I can select a person from	inappropriate content on		
			I understand the	my address book and	screen.		
			terminology, layout and	compose a suitable email to send them.			
			features of a search engine	send them.			
				I can add attachments to an			
				email I have written and use			
				the CC functionality			
				correctly.			
L				concern.	1		1

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	I can use a variety of paint	I am able to use a range of	I can create an animation	I can plan a computer	
	projects to learn about	effects and functions, such	using 2animate.	game (2DIY3D) using a	
	different cultural	as e-collage, in 2Paint a		template.	
	celebrations and clothing.	Picture	I can use the onion skin		
_			animation tool within	I can combine text, sound,	
E So	I can use paint projects for	I can use 2Paint a Picture	2Animate to show	and graphic components	
esi	numbers 1-10 to practise	to create an image	movement across the	within a 2DIY3D game	
Art and Design	number formation	replicating an established	screen.	I can design a 3D model to	
pu		style.		fit certain criteria using a	
t a	I can use 2Paint on an		I can select backgrounds	template from 2Publish.	
Ar	iPad to help me with my		and sounds to make their		
	fine motor skills and		animation more	I can use the ready-made	
	movements.		immersive.	templates within 2Design	
				and Make to design the	
				recognisable form of a	
				building.	
		I can use the sounds within	I can create a simple		
	I can experiment with	2Sequence to create a	rhythm, experimenting		
	beats and rhythms on	composition	with BPM in 'Busy Beats'		
	2Beat.	r i i i i i i i i i i i i i i i i i i i	5		
		I can explore different	I can use the tools within		
	I can experiment with	sounds to use within my	Busy Beats to create a		
ic	different instrument	tune and functions such as	melodic phrase		
Music	sounds and create my own	tempo.	experimenting with pitch		
2	simple tune on 2Explore.	tempo.	experimenting with pitch		
	simple tune on 2Lxpiore.	I can edit digital data such			
		as data in music			
		composition software like			
		2Sequence.			
		25equence.			

	I can sort items into three	I can create pictograms to	I can create a branching	I can contribute to the	
	groups using given	represent data	database that accomplishes	design of a collaborative	
	criteria.		a given goal.	and individual database.	
		I can use a binary tree to			
	I can create a pictogram on	sort information and can	I can create a branching	I can design and enter	
	2Chart.	manipulate their data,	database and can debug it	information accurately into	
		answering questions	to improve the quality of	my own database and	
	I can create, store, retrieve	relating to this	their digital content	create questions about it	
	and share my pictogram.		creation.	for my classmates to	
		I can design a binary tree		answer.	
		using 2Question to sort	I can create a branching		
		pictures	database which includes		
			suitable text, titles and		
			gathering of appropriate		
			images from online and		
			import them.		
			I use 2Graph to enter data		
			on a given number of		
			fields and then present it as		
ය			a graph		
hin					
ap			I can select the most		
<u>5</u>			suitable graph format to		
pu			present my data		
s a					
tse			I can present my graph by		
abê			sharing it on a class blog		
Databases and graphing					
Ц			I can present information		
			in a range of graphical		
			formats which includes		
			attention to detail		
			regarding appropriate		
			labelling and block sizing.		

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	I can listen to a story that	I can use 'My Story' to	I can include photos, text	I understand how to touch	I can create content linked	I can use the most	I can identify the key
	my teacher has created on	create an interactive story.	and sound in my creations.	type using the home,	to a 2Simulate scenario for	appropriate form of online	features of a blog and
	2Create a Story.			bottom and top row keys	a select audience	communication according to	share these using 2Write.
		I can change the pictures,	I understand how digital	using both hands.		the digital content. For	
	I can use digital	add animations and sound	content can be represented		Using a variety of	example, use 2Email, 2Blog	I can create a blog for a
	microscope to look at	to my story.	in different ways.	I can apply my touch-	software, I can make	and Display Boards.	specific purpose and can
	minibeasts and plants.			typing skills in other	informed choices about the	I can use 2Connect to design	post comments on an
		I can save my work.		lessons.	best way to present	8	existing class blog
	I can practice fine motor				information	and create concept maps that collect and present a range	
	skills and movements	I can find my work in my		I can add text. pictures and		of linked ideas	I understand the features
	through playing games	folder and open it.		shapes to a slide and	I can alter font types, styles	of mixed ideas	of a blog and the
	which include dragging			format them with tools	and sizes to suit an	I can work successfully with	differences between a blog
	and dropping.			such as shadows and	intended audience for	others to create an online	page and a blog post
				borders	digital content using	collaborative concept map	
	I can play games on the				2Publish and incorporate,	using 2connect	I can work collaboratively
	IWB.			I can insert slides into a	with ease, images from	C	and individually to plan,
				presentation.	clipart banks and internet	During presentations, I can	design, and create a blog.
	I can take a photo with a				sources.	give constructive feedback	
	camera or .tablet/Ipad.			I can use transition effects		sensitively and respond well	I can use criteria to
цg				between slides and	I can share digital content	to others' feedback.	evaluate the quality of my
lti				animations of the objects	using a variety of		own and others digital
Sei				in slides.	applications such as:	I can create a word	solutions,
Te					2Blog, 2Email and Display	processing document.	suggesting refinements.
Ιp				I can explore the use of	Boards.	Leen de leekerde	
Writing and Presenting				timings to a presentation.		I can alter the look of the text and navigate around the	I can consider the intended
gu						document.	audience carefully when I
iti				Using 2Simulate, I can		document.	design and make digital
Ň				analyse and evaluate		I can consider the overall	content.
,				information relating to the		structure of the document	
				situations in the activities		using paragraph formatting,	I can plan, design and
						page breaks, headers and	create various quizzes
				I understand the		footers to increase the	using a variety of
				importance of simulations		usefulness and visual appeal	software- 2DIY, 2Quiz
				to replicate events that		of a document	and 2Investigate.
				could occur in real and			
				hypothetical situations		I can add images, text boxes	With ease, I can combine
						and shapes to a word	text with images and audio
						document.	to enhance my quizzes.
						I can resize and reposition	
						objects using wrapping	
						options.	
						I understand that I should	
						I understand that I should not simply copy images	
						from the internet and	
						routinely consider copyright	
						and attributions when I use	
						images created by others.	
		I	L		1	mages created by others.	