

Skills Progression Year 2 Year 3 Preschool **EYFS** Year 1 Year 4 Year 5 Year 6 Show an interest Use a swipe Identify Recognise the Explain how Describe how Explain that Explain the uses and features digital devices importance of in technological motion to control technology networks computers can toys a tablet around us of information function physically be connected internet addresses technoloav connect to other together to form Identify a tablet Tap a tablet to Identify a Identify input and networks systems Recognise how device open an computer and its Identify the uses output devices data is transferred application main parts of information Recognise how Recognise the across the technology in the Recognise how networked role of computer internet Use the home Use a mouse in school digital devices devices make up systems in our button to return different ways can change the the internet lives Explain how to the home Identify way that we work sharina (Click & Drag, screen on a open programs, information Outline how Identify how to information online tablet make pictures) technology Explain how a websites can be use a search can help people computer shared via the engine beyond school to work together World Wide Web Begin to Use a keyboard network can be recognise EYFS to type on a Explain how used to share Describe how Evaluate different Computing information information ways of working core app icons computer Describe how search engines Systems & content can be select results technology helps together online **Networks** Use the keyboard Explore how added and US to edit text digital devices accessed on the Explain how Recognise how Explain how to can be World Wide Web search results are we communicate connected Create rules for use information ranked using technology using technology technology safely Recognise how responsibly Recognise the the content of Recognise why **Evaluate different** Recognise that physical the WWW is the order of methods of online created by results is choices are components of a communication made when using network important, and to people information whom technology Evaluate the consequences of unreliable content Describe what Use a digital Explain that the Identify that Mark-make on a Draw a picture Recognise how Review an Creating digital device using an app on different freehand device to take a text and images composition of drawing tools existing website Media: Text & a tablet device tools do photograph convey digital images can be used to and consider its Images information can be changed structure

 Understand that	Take a	Use the shape	Make choices			produce different	
a tablet device	photograph	tool and the line	when taking a	Recognise that	Explain that	outcomes	Plan the features
can be used to	using the camera	tools	photograph	text and layout	colours can be	0010011105	of a web page
take a	function on a	10013	photograph	can be edited	changed in	Create a vector	of a web page
photograph	tablet device	Make careful	Describe what	cur be cureu	digital images	drawing by	Consider the
photograph		choices when	makes a good	Choose	aigitai iriages	combining	ownership and
	Access the	painting a digital	photograph	appropriate	Explain how	shapes	use of images
	camera roll on a	picture (e.g.	photograph	page settings	cloning can be	shupes	(copyright)
	tablet device	shapes/colours)	Decide how	page seriirigs	used in photo	Use tools to	(CODyngin)
		31000370000137	photographs can	Add content to a	editing	achieve a	Recognise the
		Explain why I	be improved	desktop	caning	desired effect	need to preview
		chose the tools I	beimproved	publishing	Explain that		pages
		used	Use tools to	publication	images can be	Recognise that	pagos
		0300	change an	poblication	combined	vector drawings	Outline the need
		Use a computer	image	Consider how	combined	consist of layers	for a navigation
		on my own to	inago	different layouts	Combine images		path
		paint a picture	Recognise that	can suit different	for a purpose	Group objects to	I
			photos can be	purposes		make them	Recognise the
		Compare	changed	1 19 0000	Evaluate how	easier to work	implications of
		painting a picture		Consider the	changes can	with	linking to content
		on a computer		benefits of	improve an		owned by other
		and on paper		desktop	image	Apply learning	people
				publishing		about vector	11
		Use a computer		- 0		drawings	Recognise that
		to write				O	you can work in
							, three dimensions
		Add and remove					on a computer
		text on a					
		computer					Identify that
							digital 3D objects
		Identify that the					can be modified
		look of text can					
		be changed on a					Recognise that
		computer					objects can be
							combined in a 3D
		Make careful					model
		choices when					
		changing text					Create a 3D
							model for a given
		Explain why I used					purpose
		the tools that I					
		chose					Plan my own 3D
							model
		Compare typing					
		on a computer to					Create my own
		writing on paper					digital 3D model

		<u> </u>	т					
	Understand that	Record sound on		Say how music	Explain that	Identify that	Explain what	
	a tablet device	a tablet device		can make us feel	animation is a	sound can be	makes a video	
	can be used to				sequence of	recorded	effective	
	record video and	Record a video		Identify that there	drawings or			
	sound	on a tablet		are patterns in	photographs	Explain that audio	Use a digital	
		device		music	- •	recordings can	device to record	
					Relate animated	be edited	video	
		Access the		Experiment with	movement with a			
		camera roll to		sound using a	sequence of	Recognise the	Capture video	
		view a video on		computer	images	different parts of	using a range of	
		a tablet device			0	creating a	techniques	
				Use a computer	Plan an	podcast project		
				to create a	animation]	Create a	
				musical pattern		Apply audio	storyboard	
					Identify the need	editing skills		
				Create music for	to work	independently	Identify that	
				a purpose	consistently and		video can be	
				1 1 1 1 1 1 1 1	carefully	Combine audio	improved	
				Review and refine	,	to enhance a	through	
				our computer	Review and	podcast project	reshooting and	
				work	improve an	· · · · · · · · · · · · · · · · · · ·	editing	
					animation	Evaluate the	U U	
Creating						effective use of	Consider the	
					Evaluate the	audio	impact of the	
Media:					impact of adding		choices made	
Sound &					other media to		when making	
Motion					an animation		and sharing a	
NUCIION							video	
		I				1		

	Count objects to	Count objects to	Label objects	Recognise that	Create questions	Explain that data	Use a form to	Create a data set
		10	Label objects	we can count	with yes/no	gathered over	record	in a spreadsheet
	5	10	Identify that			time can be used	information	in a spreadsheer
	Croup objects by	Croup objects by	objects can be	and compare objects using tally	answers	to answer	information	Build a data set in
	Group objects by colour or shape	Group objects by differing	counted	charts	Idoptify the	questions	Compare paper	a spreadsheet
	colour or shape	0	counied	charis	Identify the attributes needed	quesiions	Compare paper	a spreadsneer
		properties (e.g. colour, size,	Describe objects	Recognise that	to collect data	Use a digital	and computer- based databases	Explain that
		weight,	in different ways	objects can be	about an object	device to collect	Dased dalabases	formulas can be
		capacity)	in different ways	represented as	abour an object	data	Outline how you	used to produce
		cupucity	Count objects	pictures	Create a	automatically	can answer	calculated data
			with the same	picioics	branching	doronnancally	questions by	
			properties	Create a	database	Explain that a	grouping and	Apply formulas to
			properties	pictogram	uulubuse	data logger	then sorting data	data
			Compare groups	piciogram	Explain why it is	collects 'data	men soning data	uulu
			of objects	Select objects by	helpful for a	points' from	Explain that tools	Create a
			Answer questions	attribute and	database to be	sensors over time	can be used to	spreadsheet to
			about groups of	make	well structured		select specific	plan an event
			objects	comparisons		Recognise how a	data	plan an oron
			0.0,0010		Plan the structure	computer can	aana	Choose suitable
				Recognise that	of a branching	help us analyse	Explain that	ways to present
				people can be	database	data	computer	data
				described by			programs can be	
				attributes	Independently	Identify the data	used to compare	
Data &					create an	needed to	data visually	
				Explain that we	identification tool	answer questions	,	
Informa t ion				can present			Use a real-world	
				information using		Use data from	database to	
				a computer		sensors to answer	answer questions	
						questions		
		I		1	1	1	1	1

Programming	Use a control pad to move an object forwards and backwards (e.g. remote control car)	Use single step commands to move a bee-bot forwards, backwards, right and left	Explain what a given command will do Act out a given command Combine 'forwards' and 'backwards' commands to make a sequence Combine four direction commands to make sequences Plan a simple program Find more than one solution to a problem when planning routes	Describe a series of instructions as a sequence Explain what happens when we change the order of instructions Use logical reasoning to predict the outcome of a program Explain that programming projects can have code and artwork Design an algorithm Create and debug a program that I have written	Explore a new programming environment Identify that commands have an outcome Explain that a program has a start Recognise that a sequence of commands can have an order Change the appearance of a project Create a project from a task description	Identify that accuracy in programming is important Create a program in a text- based language Explain what 'repeat' means Modify a count- controlled loop to produce a given outcome Decompose a task into small steps Create a program that uses count-controlled loops to produce a given outcome	Define a 'variable' as something that is changeable Explain why a variable is used in a program Choose how to improve a game by using variables Design a project that builds on a given example Use a design to create a project Evaluate a project	
Programming B	Use single step commands to move a bee-bot forwards and backwards	Use two-step commands to move an object forwards and left or right, then backwards and left or right	Choose a command for a given purpose Show that a series of commands	Explain that a sequence of commands has a start Explain that a sequence of	Explain how a sprite moves in an existing project Create a program to move	Develop the use of count- controlled loops in a different programming environment	Explain how selection is used in computer programs Relate that a conditional	Create a program to run on a controllable device Explain that selection can

	a eva la a tatia a al		a aprila in farm	Eveloping the set in	at a ta pa a rat	o o lotro l the - flow of
	can be joined	commands has	a sprite in four	Explain that in	statement	control the flow of
	together	an outcome	directions	programming there are infinite	connects a condition to an	a program
	Identify the effect	Create a	Adapt a program	loops and count-	outcome	Update a
	of changing a	program using a	to a new context	controlled loops	UUICUITIE	variable with a
	value	given design		corniolied loops	Explain how	user input
	VUIDE	given design	Develop a	Develop a design	selection directs	
	Explain that each	Change a given	program by	that includes two	the flow of a	Use a conditional
	sprite has its own	design	adding features	or more loops	program	statement to
	instructions	ci e ci gi i		which run at the	p. o g. c	compare a
		Create a	Identify and fix	same time	Design a	variable to a
	Design the parts	program using my	bugs in a		program that	value
	of a project	own design	program	Modify an infinite	uses selection	
		÷		loop in a given		Design a project
	Use my algorithm	Decide how my	Design and	program	Create a	that uses inputs
	to create a	project can be	create a maze-		program that	and outputs on a
	program	improved	based challenge	Design a project	uses selection	controllable
				that includes		device
				repetition	Evaluate a	
					program that	Develop a
				Create a project	uses selection	program to use
				that includes		inputs and
				repetition		outputs on a
						controllable
						device