



Theme/Area	EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
	Recognise ways that	To identify technology	To recognise the uses	To explain how digital	To describe how	To explain that	To identify how to
	technology is used in the home and	To identify a	and features of information	devices function	networks physically connect to other	computers can be connected together	use a search engine
Computing systems and networks	the home and community, e.g. taking photos, recording videos.(Home, seasons, detectives)	To identify a computer and its main parts To use a mouse in different ways To use a keyboard to type on a computer To use the keyboard to edit text To create rules for using technology responsibly	To identify the uses of information technology in the school To identify information technology beyond school To explain how information technology helps us To explain how to use information technology safely To recognise that choices are made when using	To identify input and output devices To recognise how digital devices can change the way we work To explain how a computer network can be used to share information To explore how digital devices can be connected To recognise the physical components of a network		connected together to form systems To recognise the role of computer systems in our lives To recognise how information is transferred over the internet To explain how sharing information online lets people in different places work together To contribute to a shared project online To evaluate different ways of working together online	To describe how search engines select results To explain how search results are ranked To recognise why the order of results is important, and to whom To recognise how we communicate using technology To evaluate different methods of online communication
			when using information technology				





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	Use technology to	To describe what	To use a digital	To explain that	To identify that	To identify that	To use a computer to
	explore and access	different freehand	device to take a	animation is a	sound can be digitally	drawing tools can be	create and manipulate
	digital content.	tools do	photograph	sequence of drawings	recorded	used to produce	three-dimensional
Creating media	Operate a digital device with support to fulfil a task Create simple digital content, e.g. digital art. To	To use the shape tool and the line tools To make careful choices when painting a digital picture To explain why I chose the tools I used	To make choices when taking a photograph To describe what makes a good photograph To decide how photographs can be improved	or photographs To relate animated movement with a sequence of images To plan an animation To identify the need to work consistently and carefully	To use a digital device to record sound To explain that a digital recording is stored as a file To explain that audio can be changed	To create a vector drawing by combining shapes To use tools to achieve a desired effect To recognise that	(3D) digital objects To compare working digitally with 2D and 3D graphics To construct a digital 3D model of a physical object To identify that
C	convey information, e.g. image for a poster.	To use a computer on my own to paint a picture To compare painting a picture on a computer and on paper	To use tools to change an image To recognise that photos can be changed	To review and improve an animation To evaluate the impact of adding other media to an animation	through editing To show that different types of audio can be combined and played together To evaluate editing choices made	vector drawings consist of layers To group objects to make them easier to work with To evaluate my vector drawing	physical objects can be broken down into a collection of 3D shapes To design a digital model by combining 3D objects To develop and improve a digital 3D model





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Creating Media	Choose media to convey information, e.g. image for a poster. Recognise ways that technology is used in the home and community, e.g. taking photos, recording videos.	To use a computer to write To add and remove text on a computer To identify that the look of text can be changed on a computer To make careful choices when changing text To explain why I used the tools that I chose To compare typing on a computer to writing on paper	To say how music can make us feel To identify that there are patterns in music To show how music is made from a series of notes To create music for a purpose To review and refine our computer work	To recognise how text and images convey information To recognise that text and layout can be edited To choose appropriate page settings To add content to a desktop publishing publication To consider how different layouts can suit different purposes To consider the benefits of desktop publishing	To explain that digital images can be changed To change the composition of an image To describe how images can be changed for different uses To make good choices when selecting different tools To recognise that not all images are real To evaluate how changes can improve an image	To explain what makes a video effective To identify digital devices that can record video To capture video using a range of techniques To create a storyboard To identify that video can be improved through reshooting and editing To consider the impact of the choices made when making and sharing a video	To review an existing website and consider its structure To plan the features of a web page To consider the ownership and use of images (copyright) To recognise the need to preview pages To outline the need for a navigation path To recognise the implications of linking to content owned by other people





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	Use technology to	To label objects	To recognise that we	To create questions	To explain that data	To use a form to	To identify auestions
	explore and access		can count and	with yes/no answers	gathered over time	record information	which can be
	digital content.	To identify that	compare objects using		can be used to		answered using data
		objects can be	tally charts	To identify the object	answer questions	To compare paper and	
		counted		attributes needed to		computer-based	To explain that
	Operate a digital		To recognise that	collect relevant data	To use a digital	databases	objects can be
	device with support	To describe objects in	objects can be		device to collect		described using data
	to fulfil a task	different ways	represented as	To create a branching	data automatically	To outline how	
	Create simple digital		pictures	database		grouping and then	To explain that
ב	content, e.g. digital	To count objects with			To explain that a	sorting data allows	formulas can be used
information	art Choose media	the same properties	To create a pictogram	To explain why it is	data logger collects	us to answer	to produce calculated
or n	to convey	T		helpful for a database	'data points' from	auestions	data
inf	information, e.g.	To compare groups of	To select objects by	to be well structured	sensors over time	To explain that tools	T 1 C 1 .
and	image for a poster.	objects	attribute and make			can be used to select	To apply formulas to
		To answer questions	comparisons	To identify objects	To use data collected	specific data	data, including
Data		about groups of		using a branching	over a long duration	specific data	duplicating
		objects	To recognise that	database	to find information	To explain that	To create a
			people can be			computer programs	spreadsheet to plan
			described by	To compare the	To identify the data	can be used to	an event
			attributes	information shown in	needed to answer	compare data visually	an event
				a pictogram with a	auestions	'	To choose suitable
			To explain that we	branching database	duestions	To apply my	ways to present data
			can present	J	To use collected data	knowledge of a	ways to present data
			information using a		to answer questions	database to ask and	
			computer		to answer questions	answer real-world	
						auestions	





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	Explore technology.	To explain what a given	To describe a series of	To explore a new	To identify that accuracy	To control a simple circuit	To define a 'variable' as
		command will do	instructions as a sequence	programming environment	in programming is important	connected to a computer	something that is
	Repeat an action with						changeable
	technology to trigger a	To act out a given word	To explain what happens	To identify that commands	To create a program in a	To write a program that	
	specific outcome.		when we change the order	have an outcome	text-based language	includes count-controlled	To explain why a variable
	specific outcome.	To combine forwards and	of instructions			loops	is used in a program
	Recognise the success	backwards commands to		To explain that a program	To explain what 'repeat'		
	or failure of an action.	make a sequence	To use logical reasoning to	has a start	means	To explain that a loop can	To choose how to improve
	or raiture or an action.	To combine four direction	predict the outcome of a			stop when a condition is met	a game by using variables
	Follow simple	commands to make	program (series of	To recognise that a	To modify a count-	met	To design a project that
	instructions to control	sequences	commands)	sequence of commands can	controlled loop to produce	To explain that a loop can	builds on a given example
		Sequences		have an order	a given outcome	be used to repeatedly	builds on a given example
	a digital device.	To plan a simple program	To explain that			check whether a condition	To use my design to create
	Recognise that we		programming projects can	To change the appearance	To decompose a task into	has been met	a project
	control computers.	To find more than one	have code and artwork	of my project	small steps		To evaluate my project
		solution to a problem				To design a physical	
	Input a short sequence		To design an algorithm	To create a project from a	To create a program that	project that includes	To create a program to run
	of instructions to	To choose a command for a		task description	uses count-controlled	selection	on a controllable device
ng	control a device.	given purpose	To create and debug a		loops to produce a given		
Ę.			program that I have written	To explain how a sprite	outcome	To create a program that	To explain that selection
aπ-		To show that a series of		moves in an existing		controls a physical	can control the flow of a
Programming		commands can be joined	To explain that a sequence	project	To develop the use of	computing project	program
Pr		together	of commands has a start		count-controlled loops in a	To explain how selection is	
		To identify the effect of changing a value To explain that each sprite has its own instructions		To create a program to	different programming	used in computer programs	To update a variable with a
			To explain that a sequence of commands has an	move a sprite in four	environment	used in computer programs	user input
				directions		To relate that a	To use an conditional
			outcome	To adapt a program to a	To explain that in	conditional statement	statement to compare a
			To create a program using	new context	programming there are	connects a condition to an	variable to a value
			a given design	new context	infinite loops and count	outcome	
		To design the parts of a	a given design	To develop my program by	controlled loops		To design a project that
		project	To change a given design	adding features		To explain how selection	uses inputs and outputs on
			To create a program using	adding reactives	To develop a design that	directs the flow of a	a controllable device
		To use my algorithm to	my own design	To identify and fix bugs in	includes two or more loops	program	
		create a program	7 2 22.3	a program	which run at the same time	To design a session 121	To develop a program to
			To decide how my project	F - 3	To modify an infinite loop	To design a program which uses selection	use inputs and outputs on
			can be improved	To design and create a	in a given program	משפש שבופנינוטוו	a controllable device
			,	maze-based challenge	To design a project that	To create a program which	
					To design a project that	uses selection	
					includes repetition		
					To create a project that	To evaluate my program	
						, , ,	
					includes repetition		





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	Beebot	Beebot	Beebot	Lego Kits	Lego Kits	Lego Kits
	Age approriate educational apps on	Camera	Camera	Tablets/Ipads	Tablets/Ipads	Tablets/Ipads
	Tablets and Ipads	Age approriate	Age approriate	Laptops	Laptops	Laptops
	Camera	educational apps on Tablets and Ipads	educational apps Scratch Junior	Camera	Camera	Camera
		Scratch Junior	Tynker (coding)	BBC website video — what is a computer?	BBC website video — How the internet	BBC website videos
		Tynker (coding)	BBC Bitesize –	Scratch	works	Word/PowerPoint/Excel
		BBC Bitesize – videos	videos	Tynker (coding)	Scratch	Crumble Kits
S		Jam Sandwich video	Algorithms and flow charts to show	Word/PowerPoint	Tynker (coding)	Scratch
Resources		- Algorithms	getting ready for school	Barefoot Computing	Word/PowerPoint	Tynker (coding)
		Human Crane activity	Human Crane	website	Barefoot Computing website	Barefoot Computing website
		Code-it.co.uk	activities.	National Centre for Computing Education	National Centre for	National Centre for Computing Education
		Barefoot Computing (website)	Code-it.co.uk	Wesite	Computing Education Wesite	Wesite
			Barefoot Computing (website)	Age approriate educational apps	Age approriate	Age approriate educational apps
			(website)	Book Creator	educational apps	Google Sheets
				Animate	Book Creator	Book Creator
				Stop Motion Studio	Animate	Animate
					Stop Motion Studio	Stop Motion Studio