

	Nursery	Reception	Year1	Year 2	Expectation
Online Safety	Can say who they would talk to if something was worrying them. Can recognise when something is not safe. Can tell an appropriate adult when something has upset them or made them feel sad. Can show how to stay safe in the classroom.	Is careful with technology devices Knows that they should limit their time on the computer / tablet Able to tell an adult when something worrying or unexpected happens. Is kind to their friends <i>Can recognise when</i> <i>something is not safe.</i> <i>Can stay within the given</i> <i>safe website e.g. Cheebies</i>	Able to agree and follow sensible online safety rules Knows that they need to keep passwords private Able to tell an adult when they see something unexpected or worrying online Know what personal information is	Able to agree and follow sensible online safety rules Know why they need to keep passwords and personal information private Know the things that happen online that they must tell an adult about Know about why it's important to be kind and polite online and in real life Know about why they should go online for short amount of time Know that not everyone is who they say they are on the internet.	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.
Programming	Anticipates repeated sounds, sights and actions, e.g. when an adult demonstrates an action toy several times. Shows interest in toys with buttons, flaps and	Knows how to operate simple equipment. Completes a simple program on a computer. Shows skill in making toys work by pressing parts or	Explain what a given command will do Act out a given word Combine forwards and backwards commands to make a sequence	Describe a series of instructions as a sequence Explain what happens when we change the order of instructions	Understand what algorithms are; how they are implemented as programs on digital devices; and that programs execute by following precise and



	simple mechanisms and	lifting flaps to achieve	Combine four direction	Use logical reasoning to	unambiguous
	beginning to learn to	effects such as sound,	commands to make	predict the outcome of a	instructions
	operate them.	movements or new	sequences	program (series of	
		images.		commands)	Create and debug simple
	Operates mechanical	0	Plan a simple program	,	programs
	toys, e.g. turns the knob	Children recognise that		Explain that programming	
	on a wind-up toy or pulls	their actions have an	Find more than one	projects can have code and	Use logical reasoning to
	back on a friction car.	effect	solution to a problem	artwork	predict the behaviour of
					simple programs
	l can make a floor robot move	l can make a floor robot move	Choose a command for a given purpose	Design an algorithm	
				Create and debug a	
	l can use simple software to make something	I can use simple software to make something	Show that a series of commands can be joined	program that I have written	
	happen	happen	together	Explain that a sequence of commands has a start	
	I make choices about	I make choices about	Identify the effect of		
	buttons and icons I press,	buttons and icons I press,	changing a value	Explain that a sequence of	
	touch or click	touch or click		commands has an outcome	
			Explain that each sprite		
			has its own instructions	Create a program using a	
				given design	
			Design the parts of a		
			project	Change a given design	
			Use my algorithm to	Create a program using my	
			create a program	own design	
				Decide how my project can	
				be improved	
Data Information		Knows that information	Label objects	Recognise that we can count	Use technology
		can be retrieved from		and compare objects using	purposefully to create,
		computers		tally charts	organise, store,



		Uses ICT hardware to interact with age- appropriate computer software. Completes a simple program on a computer. They select and use technology for particular purposes	Identify that objects can be counted Describe objects in different ways Count objects with the same properties Compare groups of objects Answer questions about groups of objects	Recognise that objects can be represented as pictures Create a pictogram Select objects by attribute and make comparisons Recognise that people can be described by attributes Explain that we can present information using a computer	manipulate and retrieve digital content
Creating Media	Can use ICT hardware to interact with age appropriate computer software Can swipe left and right Can take a photo using the camera app Can move objects on a screen Can create shapes and text on a screen	Uses ICT hardware to interact with age- appropriate computer software. Knows that information can be retrieved from computers They select and use technology for particular purposes Can use a touch screen Can select a required app	Digital PaintingDescribe what different freehand tools doUse the shape tool and the line toolsMake careful choices when painting a digital pictureExplain why I chose the tools I usedUse a computer on my own to paint a picture	Digital photographyUse a digital device to take a photographMake choices when taking a photographDescribe what makes a good photographDecide how photographs can be improvedUse tools to change an image	Use technology purposefully to create, organise, store, manipulate and retrieve digital content Recognise common uses of information technology beyond school



	Can use technology to			Recognise that photos can
	show my learning	Can move objects on a	Digital writing	be changed
	succession in the second se	screen	<u></u>	
			Use a computer to write	Making music
		Can create shapes and		
		text on a screen	Add and remove text on	Say how music can make us
			a computer	feel
		Can use technology to		
		show my learning.	Identify that the look of	Identify that there are
			text can be changed on a	patterns in music
			computer	
				Show how music is made
			Make careful choices	from a series of notes
			when changing text	
				Show how music is made
			Explain why I used the	from a series of notes
			tools that I chose	
				Create music for a purpose
			Compare typing on a	
			computer to writing on	Review and refine our
			paper	computer work
Computing	Seeks to acquire basic	Knows how to operate	Recognise ways that	Recognise the uses and
	skills in turning on and	simple equipment, e.g.	technology is used in the	features of information
Systems &	operating some ICT	turns on CD player and	home, classroom and	technology
networks –	equipment	uses remote control	community.	
Technology				Identify the uses of
	Can identify technology	Shows an interest in	Begin to identify some of	information technology in
Around Us	used at school.	technological toys with	the benefits of using	the school
		knobs or pulleys, or real	technology.	
	Can identify technology	objects such as cameras		Identify information
	used at home.	or mobile phones.	Identify a computer and its main parts	technology beyond school



They select and use technology for particular purposes	Use a mouse in different ways Use a keyboard to type	Explain how information technology helps us Explain how to use	
Children recognise that a range of technology is used in places such as homes and schools	on a computer Create rules for using technology responsibly	information technology safely Recognise that choices are made when using information technology	

#### Key Vocabulary

EYFS	Year 1	Year 2	
iPad, unlock, lock, camera screen, swipe, home button, app, device, tablet, password, username, online	Computer, direction, challenge, arrow, rewind, forward, backwards, right turn, left turn, button, sort, keys, delete, password, information, save, program, debug, character, predict, instruction, action, background, undo, pictogram, data, animation, e-Book, font, file, sound effect, backspace, clipart, lock, spreadsheet, technology, username, private, online, columns, rows, code, scale, criteria, collate, cursor, cells, search engine, avatar, notification, algorithm	Algorithm, program, debug, backspace, columns, rows, spreadsheet, pictogram, question, data, store, present, report, search, translated, input, scale, command, code, code block, cause and effect, copy and paste, cells, count tool, image toolbox, lock tool, move cell tool, speak tool, database, retrieve, value, email, inappropriate, content, attachment, binary tree, composition, manipulate, digital footprint	