

<u>Computing Curriculum – Progression Map</u>

In Nursery and Reception children are exposed to the use of IT to support learning such as the interactive television, ipads etc however computing is not explicitly taught.

Unit Summaries	Computing systems and networks	Creating media	Programming A	Data and Information	Creating Media	Programming B
Year 1	Technology around us	Digital painting	Moving a robot	Grouping data	Digital writing	Programming animations
	Recognising technology in	Choosing appropriate tools	Writing short algorithms	Exploring object labels,	Using a computer to create	Designing and programming
	school and using it responsibly	in a program to create art,	and programs for floor	then using them to sort	and format text, before	the movement of a
		and making comparisons	robots, and predicting	and group objects by	comparing to writing non-	character on screen to tell
		with working non-digitally.	program outcomes.	properties.	digitally.	stories.
Year 2	Information technology	Digital photography	Robot algorithms	Pictograms	Digital music	Programming quizzes
	around us	Capturing and changing	Creating and debugging	Collecting data in tally	Using a computer as a tool	Designing algorithms and
	Identifying IT and how its	digital photographs for	programs, and using logical	charts and using attributes	to explore rhythms and	programs that use events to
	responsible use improves our	different purposes.	reasoning to make	to organise and present	melodies, before creating a	trigger sequences of code
	world in school and beyond.		predictions.	data on a computer	musical composition.	to make an interactive quiz.
Year 3	Connecting computers	Stop-frame animation	Sequencing sounds	Branching databases	Desktop publishing	Events and actions in
	Identifying that digital devices	Capturing and editing	Creating sequences in a	Building and using	Creating documents by	programs
	have inputs, processes, and	digital still images to	block-based programming	branching databases to	modifying text, images, and	Writing algorithms and
	outputs, and how devices can	produce a stop-frame	language to make music	group objects using yes/no	page layouts for a specified	programs that use a range
	be connected to make	animation that tells a story		questions.	purpose.	of events to trigger
	networks.					sequences of actions.
Year 4	The internet	Audio production	Repetition in shapes	Data logging	Photo editing	Repetition in games
	Recognising the internet as a	Capturing and editing	Using a text-based	Recognising how and why	Manipulating digital	Using a block-based
	network of networks including	audio to produce a	programming language to	data is collected over time,	images, and reflecting on	programming language to
	the WWW, and why we should	podcast, ensuring that	explore count-controlled	before using data loggers	the impact of changes and	explore count-controlled
	evaluate online content.	copyright is considered.	loops when drawing shapes.	to carry out an	whether the required	and infinite loops when
				investigation.	purpose is fulfilled.	creating a game.
Year 5	Systems and searching	Video production	Selection in physical	Flat-file databases	Introduction to vector	Selection in quizzes
	Recognising IT systems in the	Planning, capturing, and	<u>computing</u>	Using a database to order	graphics	Exploring selection in
	world and how some can	editing video to produce a	Exploring conditions and	data and create charts to	Creating images in a	programming to design and
	enable searching on the	short film.	selection using a	answer questions.	drawing program by using	code an interactive quiz.
	internet		programmable		layers and groups of	
			microcontroller.		objects.	
Year 6	Communication and	Webpage creation	Variables in games	Introduction to	3D modelling	Sensing movement
	collaboration	Designing and creating	Exploring variables when	<u>spreadsheets</u>	Planning, developing, and	Designing and coding a
	Exploring how data is	webpages, giving	designing and coding a	Answering questions by	evaluating 3D computer	project that captures inputs
	transferred by working	consideration to copyright,	game.	using spreadsheets to	models of physical objects.	from a physical device
	collaboratively online.	aesthetics, and navigation.	_	organise and calculate		
				data.		