

Digital literacy (Mechanics, searching/selecting, information and e-safety)

Information technology (Digital artefacts and computing context)

Computer Science (Algorithms and programming, data and systems)

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
EYFS	Internet safety	Computer skills	Programming –	Data handling	Computer skills	Moving a robot
			instructions			
	Using technology safely,	Locating the keyboard	Following instructions	Sorting and	Mouse control and	Using simple
	sorting good and wring	and mouse, using	as part of a practical	categorising objects	creating digital art	instructions to
	choices, recognising when	technology for	game and activity.	in play using		move a beebot
	they do and do not need	different purposes	Debugging	pictograms		robot.
	help.		instructions when			
			they go wrong.			
Year 1	Technology around us	Digital Painting	Moving a robot	Grouping data	Digital Writing	Programming
						animation
	Recognising technology in	Choosing appropriate	Writing a short	Exploring objects,	Using a computer to	Designing and
	school and using it	tools in a program to	algorithm and	labelling, then using	create and format	programming the
	responsibly	create art and making	program for floor	them to sort and	text, before	movement of a
		comparisons with	robots and predicting	group objects by	comparing to write	character on screen
		working not digitally.	program outcomes.	properties.	non-digitally.	to tell stories.
Year 2	Information technology	Digital photography	Robot algorithms	Pictograms	Digital music	Programming
	around us					quizzes
	Identifying IT and how its	Capturing and	Creating and	Collecting data in	Using a computer as	Designing
	responsible use improves	changing digital	debugging programs,	tally charts and	a tool to explore	algorithms and
	our world in school and	photography for	and using logical	using attributes to	rhythms and	programs that use
	beyond.	different purposes	reasoning to make	organise and	melodies, before	events to trigger
			predictions.	present data on a	creating a musical	sequences of code
				computer.	composition	to make an
						interactive quiz.

Year 3	Connecting computers	Stop-frame animation	Sequencing sounds	Branching databases	Desktop publishing	Events and actions in programs
	Identifying that digital	Capturing and editing	Creating sequences	Building and using	Creating documents	Writing algorithms
	devices have inputs,	digital still images to	un a block-based	branching databases	by modifying text,	and programmes
	processes and outputs and	produce a stop-frame	programming	to group objects	images, and page	that use a range of
	how devices can be	animation that tells a	language to make	using yes/no	layouts for a	events to trigger
	connected to make	story.	music.	questions.	specified purpose.	sequences of
	networks.					actions.
Year 4	The internet	Audio production	Repetition in shapes	Data logging	Photo editing	Repetition in games
	Recognising that internet	Capturing and editing	Using a text-based	Recognising how	Manipulating digital	Using a block-
	as a network or networks	audio to produce a	programming	and why data is	images, and	based programming
	including the WWW and	podcast, ensuring that	language to explore	collected over time,	reflecting on the	language to explore
	why we should evaluate	copyright is	count-controlled	before using data	impact of changes	count-controlled
	online content	considered	loops when drawing	loggers to carry out	and whether the	and infinite loops
			shapes	an investigation	required purpose is	when creating a
					fulfilled	game.
Year 5	Computer systems and	Video production	Selection in physical	Flat-file databases	Introduction to	Selection in quizzes
	network		computing		vector graphics	
	Recognising IT systems in	Planning, capturing,	Exploring conditions	Using a database to	Creating images in a	Exploring selection
	the world and how some	and editing video to	and selection using a	order data and	drawing program by	in programming to
	can enable searching on	produce a short film.	programmable	create charts to	using layers and	design and code an
	the internet		microcontroller	answer questions	groups of objects	interactive quiz.
Year 6	Communication and	Webpage creation	Variables in games	Introduction to	3D modelling	Sensing movement
	collaboration			spreadsheets		
	Exploring how data is	Designing and	Exploring variables	Answering questions	Planning, developing	Designing and
	transferred by working	creating webpages,	when designing and	by using	and evaluating 3D	coding a project
	collaboratively online	giving consideration	coding a game.	spreadsheets to	computer models of	that captures inputs
		to copyright,		organise and	physical objects.	from physical
		aesthetics and		calculate data		device.
		navigation				