



Year Group	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Огоир	DL		IT		CS	
Nursery	Using Technology Safely		Understanding the parts of a computer		Using Programming Devices	
	Pupils learn to red	cognise who we can	Pupils learn to recognise the different parts of a		Pupils use different types of devices & to give	
	trust with informati	on and how that links	computer.		and follow instructions.	
	to the or	nline world.	Computer, connected, headphones,		Backwards, camera, devices, forwards,	
	Adults, beha	viour, friends,	keyboard, monitor, online, printer,		instructions, play, record, robot.	
	information, k	ind, online, trust.	tech	nology.		
	IT -	& DL		IT	C	S
EYFS	I am a Su	uper Surfer	Look Wh	nat I Can Do	I am a Computer Scientist	
	Pupils will learn t	o recognise on and	Pupils will learn that information can be used		Pupils will learn cause and effect in computing.	
	offline technolog	y and how to use it	and created using technology.		(I press this button – this is the result)	
	•	elp of trusted adults	Button, icon, image, keyboard, mouse, text,		Button, directions, icon, input, keyboard,	
	Button, icon, keyboard, laptop,		touch screen, video.		mouse, output.	
	mouse, PC, smartphone, touch screen.					
	IT	DL	CS	CS	IT	IT
1	Basic Computing	Using text-based	Unplugged	Programming, coding	Digital Painting	Presenting
	Skills	programs to	Algorithms	& Robotics	Pupils will explore how	Information
	Pupils will learn	process and	Pupils learn what an	Pupils explore how to	to use the different	Pupils will consider a
	how to log in and	format text and	unplugged algorithm	control both physical	tools and features in a	variety of ways to
	shut down a	Images	is and create and	and virtual robots with a	computer based paint	present cross
	computer	Pupils will learn	apply them to an on-	sequence of commands.	program to create a	curricular information
	accurately and	how to use a word	screen program.	Algorithm, backwards,	variety of effects.	digitally, and compare
	begin to	processing program	Algorithm,	Beebot, clear,	Paint program, tool,	the advantages and
	understand the	to write and format	supplication, code,	forwards, left,	paint brush, erase,	disadvantages with
	importance of a	text. They will add	debug, instruction,	program, right, left.	fill, undo.	paper-
	password.	digital images and	program, software.			based content.
	Backspace, caps	consider the				Delete, font, image,
	lock, enter,	audience for their				import, photograph,
	keyboard, log in,	work.				text.

Banks Road Primary School Computing Long Term Curriculum Plan



	log off, password, shift.	Backspace, caps lock, enter, keys, log in, shift, shut down.				
	IT	CS	CS	IT	IT	IT & DL
2	What is a	Coding &	Programming using	Data collection and	Modifying Text and	Staying Safe Online
	Computer?	Algorithms	Scratch Jr	representation using	Images	Pupils will use the
	Pupils will learn	Pupils build on their	Pupils will use the	Pictograms	Pupils will look at	CEOP Jessie & Friends
	how to identify a	knowledge of what	Scratch Jr app to	Pupils will explore how	software they can use	materials to explore
	computer's	an algorithm is and	write their own block	to transfer physical data	to present their work.	using the online world
	different parts	how we can	code for several	from a tally chart into a	They will expand on	safely, including
	and talk about the	program computers	different projects.	digital pictogram. They	previous skills such as	sharing pictures and
	role computers	to use algorithms.	These can easily be	will compare the	using a keyboard,	online gaming. They
	play in our	They will use a	made cross	difference with creating	formatting text and	will use the skills
	society.	variety of block	curricular.	a physical pictogram.	how to use images in	developed in other
	Computer,	based coding	Blocks, bug, code,	Chart, collect, count,	their work.	units to create digital
	desktop, input,	programs to create	debugging, repeat,	data, graph,	Align, bold, font,	content about online
	laptop, monitor,	algorithms, solve	sequence, sprites,	pictogram, tally.	italic, keyboard, shift,	safety.
	mouse, output.	programs and	tinkering.		text.	Trusted adult,
		debug errors.				online, personal
		Algorithm, blocks,				information, public,
		bug, code,				sharing, password,
		debugging,				website, app.
		repeat, sequence,				
		sprites.				/
	IT	CS	CS	IT	CS	IT /DL
3	Composing	Introduction to	Prediction and	Altering Media	Inside a computer	Publishing Online
	Emails	Scratch	Debugging	Pupils to look at the	Pupils will identify the	Content
	Pupils will explore	Pupils will learn	Pupils will learn how	skills behind taking a	different parts of a	Pupils will be
	the different	how to program	to use prediction	good photograph and	computer and explore	introduced to graphic





	advanced features of Microsoft Word. They will also use these skills to compose an email. Attachment, clickbait, Email, reliable, source, virus, website	sprites using a range of blocks to add animation, sound and other effects Algorithm, computational thinking, costumes, input, output, programming, repetition, selection, sequence.	when coding to test and debug written programs. Algorithm, computational thinking, debugging, decomposition, input, output, prediction, programming, sequence, sprite.	how these photos can be edited in various ways. Camera, consent, image, pixel, portfolio, theme.	how computers have evolved over the last 100 years. Input device, memory, microprocessor, motherboard, network, output device, router, switch.	design, marketing, and will develop their publishing skills. Crop, effect, elements, filter, graphic design, publishing, social media.
	IT	CS	CS	IT	DL	IT
4	Branching Databases Pupils learn about the concept of a branching database and create their own using presentation software. And, branching database, data, filed, information,	Repetition and Forever Loops Pupils learn to use repetition and loops when coding. Algorithm, code, debug, forever, loop, repeat, sequence, variable.	Pupils use their knowledge of Scratch to create a Formula One style game. Algorithm, debugging, input, programming, repetition, selection, sequence, tinker.	Making a Special Effects movie Pupils create their own videos and apply special effects to them. Audio, CGI, green screen, image, special effects, text, video.	Smarter Searching and Online Safety Pupils to gain awareness of the best ways to use a search engine and to continue to develop awareness of online dangers. Image, keyword, personal data, reliable, search engine, sharing, website.	Pixel Art Pupils create a piece of pixel artwork using a grid format. Algebra, binary, columns, formula, pixel, rows, spreadsheet.





	or, organise,					
	search, sort.					
	IT	CS	CS	IT	CS	IT
5	Create & Search	Using Variables	Coding Using	Stop Motion	The Internet & The	3D Modelling
	A Database	Pupils identify	Micro:Bits	Animation	World Wide Web	Children will learn to
	Pupils will use	different types of	Pupils to program	Pupils will learn about all	In this unit the children	design models using
	Excel to create	variables. what	Micro:Bit to make a	aspects of stop frame	will learn the	online CAD software.
	and search a	conditionals are	variety of practical	animation. They will	difference between the	CAD, orbit, pan,
	database.	and understand	and usable devices.	storyboard their own	WWW and the	push/pull tool,
	Database,	how variables are	Algorithm, block,	story before using a	internet. They will also	select, template,
	ascending,	used in computer	conditionals,	software package to	understand what is	zoom.
	descending,	programming.	forever loop,	create their own stop	meant by IP address.	
	filed,	Abstraction,	Micro:Bit, scroll,	frame animation.	LAN, modem,	
	information,	algorithm,	variable.	Animate, animation,	network, router,	
	keyboards,	conditionals,		editing, frame, image,	server, switch, WAN.	
	record, retrieval,	decomposition,		stick figure, stop frame		
	search.	logic, loops,		animator.		
		operators,				
		sequence,				
		variable.				
	IT	CS	CS	IT	IT	IT & DL
6	Creating	Edublocks-	Programming a	Creating a Podcast	HTML	Social Media &
	Formula in Excel	Introduction to	Game	Pupils will produce a	Pupils will learn how to	Being Safe Online
	Pupils will learn	Python	Using the application	podcast based on a	design a multi-page	Pupils will learn about
	how to organise	Pupils will learn	Scratch, pupils will	piece of writing from	informational website,	the purpose of social
	data and make	how block- based	create an interactive,	another curriculum area	considering the layout,	media and different
	calculations using	programming	playable game using	or aspect of school life.	user experience and	aspects of social
	the application	compares to written	conditionals,	Audio, download, edit,	key features including	media and how to use
	Microsoft Excel.	code. Pupils will be	variables, and	MP3, Podcast, Record,	home page, links and	it safely.
	Auto Sum, cell,	introduced to	operators.	Refine.	images.	Forum, in-app
	column,	Python as a text-	Abstraction,		Heading, HTML,	purchase, PEGI,
	formulae, graph,		algorithm, debug,		images, layout,	permission, ratings,





	merge, row, spreadsheet.	based method of programming. Conditional statement, function, iteration, loop, RGB values, selection, sequence, variable.	decomposition, logic, operators, sequence, variable.	source code, text, website.	social media, social networks.
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