Woodlands Primary School Computing Overview Cycle A 2024/2025

Reception Overview

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
	All About Me	Minibeasts	Journeys	Journeys	Amazing Animals	Super Veggies
Objectives from	Explore how things	Explore how things	Talk about members of	Explore how things	Recognise some	Recognise some
Development	work.	work.	their immediate family	work.	environments that are	environments that are
Matters	Talk about members of		and community.		different from the one	different from the one
	their immediate family.		(Online safety)		in which they live.	in which they live.
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Key Learning	Cyber Sid	Cyber Sid	Cyber Sid	Barefoot computing -	Barefoot computing -	Make a podcast/video
	AUP (Acceptable use	Drawing programs -	Online Relationships	Super Space link with	Spring time - Make a	of their favourite
	policy) Rules	draw images of	(PROJECT EVOLVE)	algorithm and Simple	rabbit run - link to	memory from
		Autumn animals and	(I NOJECI EVOLVE)	coding	Code Critters (rabbit)	Reception.
	Provide children with	leaves		Directional activities	Encourage children to	Look for opportunities
	loose parts to play with	1.00.100	Barefoot computing -		refer to books, wall	via literacy speaking
	and investigate.		People who help us.	Code Critters	displays and online	and listening for the
	Encourage the children	Use of cameras / IPads		Simple coding - Let's go	resources. This will	children to record a
	to explore the EYFS	to take pics on an		code (activity set).	support their	story.
	environment and	Autumn/Seasonal	Use of walkie talkies to	Directional activities	investigations and	Cmall groups work in
	provision available.	change walk	guide a friend on a		extend their knowledge	Small groups work in the computer room or
	Provide opportunities		journey		and ways of thinking.	on iPads if staffing
	to explore mechanical		Simple coding - Let's go		Small groups work in a	allows. If it is difficult,
	toys e.g cars, code	Type labels for Autumn	code (activity set).		computer room or on	bring an iPad trolley to
	critters, IWB,	objects found on walk	Directional activities		iPads - research	EYFS.
	Children sand in family	e.g conkers, leaves			different habitats and	
	Children send in family photographs to build a				animals around the	
	class display.				world.	
	Encourage children to					
	refer to books, wall					
	displays and online					
	resources. This will					
	support their					

	investigations and extend their knowledge and ways of thinking.					
Key Vocab	online safety, internet, Interactive Whiteboard, IPad, email, share, laptop, communicate, printer, telephone, wires, keyboard, keys screen, technology, on, off, mouse, equipment, remote	Interactive Whiteboard, IPad, tablet, email, share, laptop, camera, photograph, video, internet, website, search, online, typing, create, paint, online safety	Interactive Whiteboard, IPad, tablet, email, share, laptop, camera, photograph, video, internet, website, search, online directional language – right, left, up, down, sideways, forwards, backwards, moving, instructions, information, online safety	Interactive Whiteboard, IPad, tablet, email, share, laptop, camera, photograph, video, internet, website, search, online, coding critters, directional language — right, left, up, down, sideways, forwards, backwards, instructions, moving	Interactive Whiteboard, IPad, tablet, email, share, laptop, camera, photograph, video, internet, website, search, online, coding critters, directional language – right, left, up, down, sideways, forwards, backwards, instructions, moving	Interactive Whiteboard, IPad, tablet, email, share, laptop, camera, photograph, video, internet, website, search, online, coding critters, directional language — right, left, up, down, sideways, forwards, backwards, podcast, voice notes, sound, click, double click, mouse
How does this prepare the children for Key Stage 1?	Information technology Around Us topic Naming devices around the EYFS setting	Digital writing Digital painting Photography Using the iPads	Algorithms – using Beebots instructional language	Use of Beebots Use of ScratchJn -c oding software on IPads	Refining children's search skills using Google Use of Beebots Mouse control skills Familiarity with computing equipment and computer room	Photography - using iPads Mouse control skills Familiarity with computing equipment and computer room

Key Stage 1 and 2 Cycle A

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
	Computer Systems and Networks	Creative Media	Programming 1	Data and Info	Creating Media	Programming 2
Year 1/2	Technology Around Us (Y1) Information	Digital Writing	Moving a Robot (Y1) Robot Algorithms	Grouping Data	Digital Painting	Programming Animation (Y1) Programming
	Technology Around Us (Y2)		(Y2)			Quizzes (Y2)
Year 3/4	The Internet	Audio Editing	Repetition in Shapes	Branching Database	Photo Editing	Repetition in Games
Year 5/6	Sharing Information	Video Production	Selection in Physical Computing	Flat-file Databases	Vector Drawing	Selection in Quizzes

Unit Summaries Cycle A

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
	Computer Systems and Networks	Creative Media	Programming 1	Data and Info	Creating Media	Programming 2
Year 1/2	Technology Around Us (Y1) Recognising technology in school and using it responsibly. Information Technology Around Us (Y2) Identifying IT and how its responsible use improves our world in school and beyond.	Digital Writing Using a computer to create and format text, before comparing to writing non-digitally.	Moving A Robot (Y1) Writing short algorithms and programs for floor robots and predicting program outcomes. Robot Algorithms (Y2) Creating and debugging programs, using logical reasoning to make predictions.	Grouping Data Exploring object labels, then using them to sort and group objects by properties.	Digital Painting Choosing appropriate tools in a program to create art and making comparisons with working non-digitally.	Programming Animations Designing and programming the movement of a character on screen to tell stories.
Year 3/4	The Internet Recognising the internet as a network of networks including the WWW and why we should evaluate online content.	Audio Editing Capturing and editing audio to produce a podcast, ensuring that copyright is considered.	Repetition in Shapes Using a text-based programming language to explore count-controlled loops when drawing shapes.	Branching Databases Building and using branching database to group objects using yes/no questions.	Photo Editing Manipulating digital images and reflecting on the impact of changes and whether the required purpose is fulfilled.	Repetition in Games Using block-based programming language to explore count-controlled and infinite loops when creating a game.
Year 5/6	Sharing Information Identifying and exploring how information is shared between digital systems.	Video Production Planning, capturing, and editing video to produce a short film.	Selection in Physical Computing Exploring conditions and selection using a programmable microcontroller.	Flat-file Databases Using a database to order data and create charts to answer questions.	Vector Drawing Creating images in a drawing program by using layers and groups of objects.	Selection in Quizzes Exploring selection in programming to design and code an interactive quiz.

Computing Vocabulary Cycle A

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
	Computer Systems and	Creative Media	Programming 1	Data and Info	Creating Media	Programming 2
	Networks					
Year 12	Technology Around Us Online (Y1) Base unit, click, computer, device, drag, desktop, double-click, file, full stop, iPad, input device, keyboard, laptop, mouse, monitor, responsibly, open, password, program, save, safely, screen, spacebar, text, technology, typing, trackpad. Information Technology Around Us (Y2) Barcode, computer, devices, games console, handles, information technology (IT), memory stick, password, projector, release, resize, safety, scan, scanner, social media, USB.	Digital Writing Backspace, bold, capital letters, compare, font, format, italic, keyboard, keys, letters, letters, Microsoft Word, mouse, numbers, redo, select, space, text cursor, toolbar, toolbar, type, underline, undo, word processor.	Moving a Robot (Y1) Algorithm, backwards, Beebots, clear, commands, directions, forwards, go, instructions, left, plan, program, right, robot, route, turn. Robot Algorithms (Y2) Algorithm, backwards, clear, debugging, decomposition, fixing, forwards, go, Instruction, left, mat, order, prediction, program, programmers, right, route, sequence, turn, unambiguous.	Grouping Data Colour, data, fewest, group, image, label, least, less, more, most, object, property, same, search, shape, size, value.	Digital Painting Brush style, colour, computers, erase, fill tool, fill line tool, paint program, paintbrush, painting, pictures, shape tools, tool, undo.	Programming Animation Algorithm, appropriate, background, Bee-Bot, block, change, command, compare, delete, effect, instruction, joining, predict, program, programming area, programming blocks, programming, reset, run, Scratch Jn, sprite, start block, value.
Year 3/4	The Internet Accurate, adverts, content, download, files, Information, internet, links, network, network security, network switch, ownership, permission, router, routing, server, sharing, use, web address router, web browser, web page, website, Wireless Access Point (WAP), World Wide Web (WWW)	Audio Editing Align, audio, edit, export, headphones, import, input device, layer, load, microphone, MP3, output device, playback, podcast, record, save, selection, sound, speaker, trim.	Repetition in Shapes Code snippet, commands, count-controlled loop, debug, decompose, design, logo, pattern, procedure, program, repeat, repetition, trace, turtle, value.	Branching Databases Attribute, branching databases, compare, database, decision tree, equal, even, information, objects, order, organise, questions, selecting, separate, structure, table, value.	Photo Editing Adjustments, alter, background, clone, combine, composite, copy, crop, cut, digital, edit, effects, font, foreground, hue, Image, made up, paste, retouch, rotate, saturation, save, select, sepia, undo, vignette, zoom.	Repetition in games Algorithm, animate, block, code, costume, count- controlled loop, debug, design, duplicate, evaluate, event block, forever, infinite loop, loop, modify, programming, refine, repeat, repetition, Scratch, sprite, value.

Sharing Information Algorithm, connection, content creator, crawler, digital, index, input, links, ordering, output, process, ranking, refine, search, search engine, search engine optimisation (SEO), selection, system, web crawler.	Video Production Audio, camera, clip, close, delete, edit, evaluate, export, filming, high angle, import, lens, long shot, low angle, microphone, mid-range, moving subject, normal angle, pan, panning, reorder, reshoot, share, side by side, split, static camera, talking head, trim, video camera, video, zoom.	Selection in Physical Computing Action, components, condition, connect, connection, controller, count-controller, crocodile clips, crumble, debug, infinite, input, LED, loop, microcontroller, motor, output, repetition, selection, sparkle, switch.	Flat-file Databases Axis, chart, compare, criteria, data, database, field, filter, graph, group, information, order, presentation, record, search, sort, value.	Vector Drawing Align, colour, copy, duplicate, group, layers, modify, move, object, order, paste, reflection, resize, reuse, rotate, select, toolbar, tools, ungroup, vector drawing, zoom.	Selection in Quizzes Algorithm, answers, condition, conditional statement, count-control loop, debug, design, false, implement, input, outcomes, program, questions, run, selection, task, test, true.
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