



Computing Vocabulary Progression

	COMPUTING SYSTEMS AND NETWORKS	CREATING MEDIA	DATA AND INFORMATION	CREATING MEDIA	PROGRAMMING A	PROGRAMMING B
Year 1	<p>Technology around us Online Safety</p> <p>Technology, computer, mouse, trackpad, keyboard, screen, click, drag, input device, shift, spacebar, capital letter, full stop, safely, responsibly</p>	<p>Digital Painting</p> <p>Paint program, tool, paintbrush, erase, fill, undo, Piet Mondrian, primary colours, shape tools, line tool, fill tool, undo tool, Henri Matisse, Wassily Kandinsky, feelings, colour, brush style, George Seurat, Pointillism, prefer, dislike, like</p>	<p>Grouping data Online Safety</p> <p>Object, label, group, search, image, colour, shape, property, value, data set, less, most, fewest, the same</p>	<p>Digital writing Online Safety</p> <p>Word processor, keyboard, keys, letters, Microsoft Word, letters, numbers, space, backspace, text cursor, toolbar, bold, italic, underline, undo, font, toolbar</p>	<p>Moving a robot</p> <p>Forwards, backwards, turn, clear, go, commands, instructions, directions, left, right, plan, algorithm, route, program</p>	<p>Introduction to animation</p> <p>ScratchJr, Bee-Bot, command, sprite, compare, programming, programming area, block, joining, start, program, background, delete, reset, algorithm, predict, effect, change, value, block, instructions, appropriate, design</p>
Year 2	<p>Information technology around us Online safety</p> <p>Information technology (IT), computer, barcode, scanner/scan</p>	<p>Digital photography</p> <p>Device, camera, photograph, capture, image, digital, landscape, portrait, horizontal, vertical, field of view, narrow, wide, format, framing, focal point, subject, matter, flash, focus, background, foreground, editing, filter, Pixl, changed, real</p>	<p>Pictograms Online safety</p> <p>More than, less than, most, least, organise, data, object, tally chart, votes, total, pictogram, enter, data, tally chart, compare, count, explain, attribute, group, same, different, most popular, least popular</p>	<p>Making music Online safety</p> <p>Music, planets, Mars, Venus, war, peace, quiet, loud, feelings, emotions, pattern, rhythm, pulse, Neptune, pitch, tempo, notes, instrument, create, open, edit</p>	<p>Robot algorithms</p> <p>Instruction, sequence, clear, unambiguous, algorithm, program, order, commands, prediction, artwork, design, route, mat, debugging</p>	<p>Introduction to quizzes</p> <p>Sequence, command, program, run, program, start, predict, blocks, actions, sprite, modify, match, debug, features, evaluate</p>
Year 3	<p>Connecting Computers</p> <p>Digital device, input, output, process, program, connection, network, network switch, server, wireless access point (WAP)</p>	<p>Stop frame animation Online safety</p> <p>Animation, flip book, stop frame, animation, frame, sequence, image, photograph, setting, character, events, onion skinning, consistency, delete, frame, media, import, transition</p>	<p>Branching databases</p> <p>Attribute, value, questions, table, objects, branching databases, objects, equal, even, separate, order, organise, j2data, selecting, pictogram, information, decision tree, questions</p>	<p>Desktop publishing Online safety</p> <p>Text, images, advantages, disadvantages, communicate, font, style, template, desktop publishing, copy, paste, layout, purpose, benefits</p>	<p>Sequence in music</p> <p>Scratch, programming, blocks, commands, code, sprite, costume, stage, backdrop, motion, turn, point in direction, go to, glide, event, task, design, code, run the code, order, note, chord, algorithm, bug, debug</p>	<p>Events and actions</p> <p>Motion, event, sprite, algorithm, logic, move, resize, algorithm, extension block, pen up, set up, design, action, debugging, errors, setup, test</p>

<p>Year 4</p>	<p>The internet Online safety</p> <p>Internet, network, router, network security, network switch, wireless access point (WAP), router, website, web page, web address, router, routing, route tracing, browser, World Wide Web, content, links, files, use, download, sharing, ownership, permission, accurate, honest, adverts</p>	<p>Audio editing Online safety</p> <p>Audio, record, playback, microphone, speaker, headphones, input, output, start, stop, podcast, save, file, selection, edit, mixing, time shift, export, MP3, evaluate, feedback</p>	<p>Data logging</p> <p>Data, table (layout), input device, sensor, data logger, logging, data point, interval, analyse, import, export, logged, collection, analyse, review, conclusion</p>	<p>Photo editing Online safety</p> <p>Image, edit, arrange, select, digital, crop, undo, save, search, copyright, composition, save, pixels, rotate, flip, adjustments, effects, colours, hue/saturation, sepia, version, illustrator, clone, recolour, magic wand, sharpen, brighten, fake, real, composite, background, foreground, retouch, paste, alter, publication, elements, original, font style, border, layer</p>	<p>Repetition in shapes</p> <p>Program, turtle, commands, code, snippet, algorithm, design, debug, logo commands, pattern, repeat, repetition, count-controlled loop, value, decompose, procedure</p>	<p>Repetition in games</p> <p>Scratch, programming, sprite, blocks, code, loop, repeat, value, forever, infinite loop, count-controlled loop, animate, costume, event block, duplicate, modify, debug, refine, evaluate, algorithm</p>
<p>Year 5</p>	<p>Sharing information Online safety</p> <p>System, connection, digital, input, process, output, protocol, address, packet, chat, explore, slide deck, reuse, remix, collaboration</p>	<p>Video editing Online safety</p> <p>Video, audio, recording, storyboard, script, soundtrack, dialogue, capture, zoom, storage, digital, tape, AV (audiovisual), videographer, video techniques, zoom, pan, tilt, angle, YouTuber, content, camera, colour, export, trim/clip, titles, end credits, timeline, transitions, soundtrack, retake/reshoot, special effects, constructive feedback</p>	<p>Flat-file databases</p> <p>Database, data, information, record, field, sort, order, group, search, criteria, value, graph, chart, axis, compare, filter, presentation</p>	<p>Vector drawing Online safety</p> <p>Vector, drawing tools, shapes, object, icons, toolbar, move, resize, colour, rotate, duplicate/copy, zoom, select, alignment grid, handles, consistency, modify, layers, front, back, copy, paste, group, ungroup, reuse, improvement, evaluate, alternatives</p>	<p>Selection in physical computing</p> <p>Microcontroller, crumble controller, components, LED, Sparkle, crocodile clips, connect, battery box, program, repetition, infinite loop, count-controlled loop, condition, true, false, input, action, selection, motor, switch, algorithm, debug, evaluate</p>	<p>Selection in quizzes</p> <p>Selection, condition, true, false, count-controlled loop, outcomes, conditional statement – the linking together of a condition and outcomes, algorithm, program, debug, implement, question, answer, task, input, outcomes, test, run, setup, share, evaluate, constructive</p>
<p>Year 6</p>	<p>Communication Online safety</p> <p>Search, search engine, Google, Bing, Yahoo, Swisscows, DuckDuckGo, refine. index, crawler, bot, optimisation, links, web crawlers, content creator, ranking, communication, internet, public, private, one-way, two-way, one-to-one, one-to-many, SMS, email, WhatsApp, blog, YouTube, Twitter.</p>	<p>Web page creation Online safety</p> <p>Website, web page, browser, media, Hypertext Markup Language (HTML), layout, header, media, purpose, copyright, fair use, evaluate, preview, device, breadcrumb, trail, navigation, hyperlink, subpage, implication, external link, embed</p>	<p>Spreadsheets</p> <p>Spreadsheet, data, data heading, data set, cells, columns and rows, data item, format, common attribute, formula, calculation, call reference, sigma, graph, evaluate, results, comparisons, questions, software, tools, data, propose</p>	<p>3D modelling Online safety</p> <p>2D, 3D, 3D object, 3D space, view, resize, colour, lift, rotate, position, select, duplicate, dimensions, placeholder, hole, group, ungroup, modify, evaluate, improve</p>	<p>Variables in games</p> <p>Variable, change, name, value, set, design, algorithm, code, task, artwork, program, project, code, test, debug, improve, evaluate, share</p>	<p>Sensing</p> <p>Micro-bit, MakeCode, input, process, output, flashing, USB, selection, condition, if... then... else, variable, random, navigation, design, task, step counter, plan, create, code, test, debug</p>