

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Year 1	1. Computing systems and networks – Technology around us	2. Creating media – Digital painting	5. Creating media – Digital writing	4. Data and information – Grouping data	3. Programming A – Moving a robot	6. Programming B - Programming animations
Curriculum Links		Art- Kandinsky		Maths - shape		
Device	Laptops (mouse skills)	iPads	iPads	Unplugged for 1-4, lesson 5 and 6 will need laptops to save documents	Beebots	iPads
Resource	nccce.io/drag https://paintz.app/	https://paintz.app/	Word processing app/program	Files on the laptops		Scratch Jr app – saves automatically rename for each new project
Year 2	1. Computing systems and networks – IT around us	2. Creating media – Digital photography	5. Creating media - Digital music	4. Data and information – Pictograms	3. Programming A – Robot algorithms	6. Programming B - Programming quizzes
Curriculum Links			Music	Maths		
Device	Unplugged	iPads	iPads	iPads or laptops – screen shot or print from laptops	Beebots	iPads
Resource		Pixlr app	Chrome Music labs – free to use, save piece of work on iPad (can be airdropped)	j2e pictogram		Scratch Jr – saves automatically rename for each new project
Year 3	1. Computing systems and networks – Connecting Laptops	3. Programming A - Sequencing sounds	2. Creating media - Stop-frame animation	4. Data and information – Branching databases	6. Programming B - Events and actions in programs	5. Creating media – Desktop publishing
Curriculum Links			Literacy /History /Geography/ Science	Science/Maths		Most subjects and topics
Device	iPad	iPad	iPads	Laptops or iPads	iPads	iPads or laptops
Resource	Lesson 3- Sketch it app	Scratch (Website not Scratch Jr app)	iMotion	https://www.j2e.com/jit5#branch	Scratch	Canva – parental consent required
Year 4	1. Computing systems and networks – The Internet	2. Creating media - Audio production	3. Programming A – Repetition in shapes	5. Creating media – Photo editing	4. Data and information – Data logging	6. Programming B – Repetition in games
Curriculum Links		Music				
Device	iPads or Laptops	iPads and headphones	iPads or Laptops (will be easier)	iPads	TTS data logger	Laptops but iPads can be used
Resource	https://musiclab.chromeexperiments.com/	Use GarageBand on iPads	turtleacademy.com/playground	Photo editing app		scratch.mit.edu
Year 5	1. Computing systems and networks - Systems and searching	2. Creating media - Video production	5. Creating media – Introduction to vector graphics	4. Data and information – Flat-file databases	3. Programming A – Selection in physical computing	6. Programming B – Selection in quizzes
Curriculum Links	Researching any topic	Any topic			D&T/Science	
Device	iPads	iPads	iPads or Laptops	iPads or Laptops		Laptops but iPads can be used
Resource	Google.co.uk	iMovie	Vectr	http://www.j2e.com/help/videos/data_gs4	Crumble starter kit- one per pair	scratch.mit.edu
Year 6	1. Computing systems and networks - Communication and collaboration	2. Creating media – Web page creation	3. Programming A – Variables in games	4. Data and information - Introduction to Spreadsheets	5. Creating media – 3D Modelling	6. Programming B - Sensing movement
Curriculum Links					D&T	
Device	iPads	iPads/Laptops	Laptops but iPads can be used	iPads	iPads or Laptops	
Resource	Scratch is recommended and Google Classroom can be used.	Google slides but could use Powerpoint.	scratch.mit.edu	Excel	https://www.tinkercad.com m Set up teacher accounts	micro:bit.

Vocabulary Work Bank KS1

Year 1		
1.Computing systems and networks - Technology around us	2.Creating media - Digital painting	5.Creating media - Digital writing
technology, computer, mouse, trackpad, keyboard, screen, double-click, typing.	paint program, tool, paintbrush, erase, fill, undo, shape tools, line tool, fill tool, undo tool, colour, brush style, brush size, pictures, painting, computers	word processor, keyboard, keys, letters, type, numbers, space, backspace, text cursor, capital letters, toolbar, bold, italic, underline, mouse, select, font, undo, redo, format, compare, typing, writing.
4.Data and information – Grouping	5.Programming A - Moving a robot	6.Programming B – Programming animations
object, label, group, search, image, property, colour, size, shape, value, data set, more, less, most, fewest, least, the same	Bee-Bot, forwards, backwards, turn, clear, go, commands, instructions, directions, left, right, route, plan, algorithm, program.	ScratchJr, command, sprite, compare, programming, area, block, joining, start, run, program, background, delete, reset, algorithm, predict, effect, change, value, instructions, design.

Year 2		
1.Computing systems and networks - Information technology around us	2.Creating media - Digital photography	5.Creating media - Digital music
Information technology (IT), computer, barcode, scanner/scan	device, camera, photograph, capture, image, digital, landscape, portrait, framing, subject, compose, light sources, flash, focus, background, editing, filter, format, framing, lighting,	music, quiet, loud, feelings, emotions, pattern, rhythm, pulse, pitch, tempo, rhythm, notes, create, emotion, beat, instrument, open, edit.
4.Data and information – Pictograms	3.Programming A - Robot algorithms	6.Programming B - Programming quizzes
more than, less than, most, least, common, popular, organise, data, object, tally chart, votes, total, pictogram, enter, data, compare, objects, count, explain, attribute, group, same, different, conclusion, block diagram, sharing	instruction, sequence, clear, unambiguous, algorithm, program, order, prediction, artwork, design, route, mat, debugging, decomposition	sequence, command, program, run, start, outcome, predict, blocks, design, actions, sprite, project, modify, change, algorithm, build, match, compare, debug, features, evaluate, decomposition, code.

Vocabulary Work Bank Lower KS2

Year 3		
1. Computing systems and networks – Connecting computers	3. Programming A - Sequencing sounds	2. Creating media – Stop-frame animation
digital device, input, process, output, program, digital, non-digital, connection, network, switch, server, wireless access point, cables, sockets	Scratch, programming, blocks, commands, code, sprite, costume, stage, backdrop, motion, turn, point in direction, go to, glide, sequence, event, task, design, run the code, order, note, chord, algorithm, bug, debug, code.	animation, flip book, stopframe, frame, sequence, image, photograph, setting, character, events, onion skinning, consistency, evaluation, delete, media, import, transition.
4. Data and information – branching databases	6. Programing B – Events and actions in programs	5. Creating media – Desktop publishing
attribute, value, questions, table, objects, branching, database, objects, equal, even, separate, structure, compare, order, organise, selecting, information, decision tree.	motion, event, sprite, algorithm, logic, move, resize, extension block, pen up, set up, pen, design, action, debugging, errors, setup, code, test, debug, actions.	text, images, advantages, disadvantages, communicate, font, style, landscape, portrait, orientation, placeholder, template, layout, content, desktop publishing, copy, paste, purpose, benefits.

Year 4		
1. Computing systems and networks – The Internet	2. Creating media – Audio production	3. Programming A – Repetition in shapes
internet, network, router, security, switch, server, wireless access point (WAP), website, web page, web address, routing, web browser, World Wide Web, content, links, files, use, download, sharing, ownership, permission, information, accurate, honest, content, adverts	audio, microphone, speaker, headphones, input device, output device, sound, podcast, edit, trim, align, layer, import, record, playback, selection, load, save, export, MP3, evaluate, feedback.	Logo (programming environment), program, turtle, commands, code snippet, algorithm, design, debug, pattern, repeat, repetition, count-controlled loop, value, trace, decompose, procedure.
5. Creating media – photo editing	4. Data and information – Data logging	6. Programming B – Repetition in games
image, edit, digital, crop, rotate, undo, save, adjustments, effects, colours, hue, saturation, sepia, vignette, image, retouch, clone, select, combine, made up, real, composite, cut, copy, paste, alter, background, foreground, zoom, undo, font	data, table, layout, input device, sensor, logger, logging, data point, interval, analyse, dataset, import, export, logged, collection, review, conclusion.	Scratch, programming, sprite, blocks, code, loop, repeat, value, infinite loop, count-controlled loop, costume, repetition, forever, animate, event block, duplicate, modify, design, algorithm, debug, refine, evaluate.

Vocabulary Work Bank Upper KS2

Year 5		
1. Computing systems and networks – Systems and searching	2. Creating media – Video production	5. Creating media – introduction to Vector graphics
system, connection, digital, input, process, storage, output, search, search engine, refine, index, bot, ordering, links, algorithm, search engine optimisation (SEO), web crawler, content creator, selection, ranking.	video, audio, camera, talking head, panning, close up, video camera, microphone, lens, mid-range, long shot, moving subject, side by side, angle (high, low, normal), static, zoom, pan, tilt, storyboard, filming, review, import, split, trim, clip, edit, reshoot, delete, reorder, export, evaluate, share.	vector, drawing tools, object, toolbar, vector drawing, move, resize, colour, rotate, duplicate/copy, zoom, select, align, modify, layers, order, copy, paste, group, ungroup, reuse, reflectio
4. Data and information – Flat-file databases	3. Programming A – Selection in physical computing	6. Programming B – selection in quizzes
database, data, information, record, field, sort, order, group, search, value, criteria, graph, chart, axis, compare, filter, presentation.	microcontroller, USB, components, connection, infinite loop, output component, motor, repetition, count-controlled loop, Crumble controller, switch, LED, Sparkle, crocodile clips, connect, battery box, program, condition, Input, output, selection, action, debug, circuit, power, cell, buzzer	Selection, condition, true, false, count-controlled loop, outcomes, conditional statement, algorithm, program, debug, question, answer, task, design, input, implement, test, run, setup, operator

Year 6		
1. Computing systems and networks – Communication and collaboration	2. Creating media – Webpage creation	3. Programming A – Variables in games
communication, protocol, data, address, Internet Protocol (IP), Domain Name Server (DNS), packet, header, data payload, chat, explore, slide deck, reuse, remix, collaboration, internet, public, private, oneway, two-way, one-to-one, one-to-many	website, web page, browser, media, Hypertext Markup Language (HTML), logo, layout, header, media, purpose, copyright, fair use, home page, preview, evaluate, device, Google Sites, breadcrumb trail, navigation, hyperlink, subpage, evaluate, implication, external link, embed.	variable, change, name, value, set, design, event, algorithm, code, task, artwork, program, project, code, test, debug, improve, evaluate, share, assign, declare
4. Data and information – Introduction to spreadsheets	5. Creating media – 3D modelling	6. Programming B – Sensing movements.
data, collecting, table, structure, spreadsheet, cell, cell reference, data item, format, formula, calculation, spreadsheet, input, output, operation, range, duplicate, sigma, propose, question, data set, organised, chart, evaluate, results, sum, comparison, software, tools.	TinkerCAD, 2D, 3D, shapes, select, move, perspective, view, handles, resize, lift, lower, recolour, rotate, duplicate, group, cylinder, cube, cuboid, sphere, cone, prism, pyramid, placeholder, hollow, choose, combine, construct, evaluate, modify.	Micro:bit, MakeCode, input, process, output, flashing, USB, trace, selection, condition, if then else, variable, random, sensing, accelerometer, value, compass, direction, navigation, design, task, algorithm, step counter, plan, create, code, test, debug.