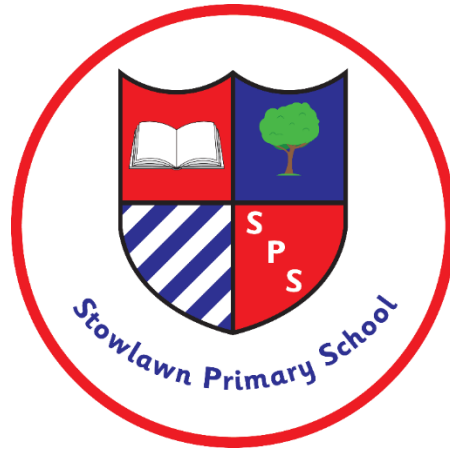


Vocabulary Progression for NCCE Computing Curriculum Y1 – Y6



Part A- **Vocabulary Progression from Scheme of Work**

(Please note: Some Key vocabulary is evident in successive year groups to ensure that concepts and terminology are embedded for all children)

Part B **Glossary of Computing Terms.**

Autumn 1 Vocabulary	Y1 Key Vocabulary	Y2 Key Vocabulary	Y3 Key Vocabulary	Y4 Key Vocabulary	Y5 Key Vocabulary	Y6 Key Vocabulary
Information Technology and Networks	Technology around us	IT around us	Connecting computers	The Internet	Sharing information	Communication
	Technology Computer, mouse, trackpad, keyboard, screen, double-click typing	information technology (IT), computer barcode, scanner/scan	Digital device, input, process, output Program, digital, non-digital Connection, network, network switch Server, wireless access point Network cables, network sockets	Internet, router, network security wireless access point (WAP), router Website, web page, web address, router, routing, web browser World Wide Web, links, files use, content, download, sharing, ownership, permission Information, sharing, accurate, honest, content, adverts	System, connection, digital, input, process, output refine Index, crawler, bot, Ordering, ranking, algorithm, search engine optimisation (SEO) web crawler, content creator, selection,	Search, search engine, Google, Bing, Yahoo!, Swisscows, DuckDuckGo, search engine optimisation (SEO), Communication, internet public, private, one-way, two-way, one-to-one, one-to-many, SMS, email, WhatsApp, blog, YouTube, Twitter, BBC Newsround

Autumn 2 Vocabulary	Y1 Key Vocabulary	Y2 Key Vocabulary	Y3 Key Vocabulary	Y4 Key Vocabulary	Y5 Key Vocabulary	Y6 Key Vocabulary
Creating Media	Creating media Digital painting	Creating media Digital photography	Creating media Animation	Creating media Audio editing	Creating media Video editing	Creating media Web page creation
	paint program, tool, paintbrush, erase, fill, undo primary colours, shape tools, line tool, fill tool, undo tool feelings, colour, brush style pointillism, brush size Georges Seurat, pointillism, painting, computers, like, prefer, dislike	Device, camera, photograph, capture, image, digital Landscape, portrait Framing, subject, compose Light sources, flash, focus, background Editing, filter Format, lighting,	Animation, flip book Stop-frame frame, sequence, image, photograph Setting, character, events, onion skinning consistency Evaluation, delete, media, import, transition	Audio, microphone, speaker, headphones, input device, output device sound, podcast, edit, trim, align layer, import record, playback, selection load, save, export, MP3 editing, evaluate, feedback	Video, camera, talking head, panning, close up Video camera, lens, close up, mid range, long shot, moving subject, side by side, high angle, low angle, normal angle Static camera, zoom, pan, tilt, storyboard	Website, web page, browser, media, Hypertext Markup Language (HTML) logo, layout, header, media, purpose Copyright, fair use Web page, home page, preview, Google Sites breadcrumb trail, navigation, hyperlink, subpage website, implication, external link, embed

Spring 1 Vocabulary	Y1 Key Vocabulary	Y2 Key Vocabulary	Y3 Key Vocabulary	Y4 Key Vocabulary	Y5 Key Vocabulary	Y6 Key Vocabulary
Programming A	Moving a robot	Robot algorithms	Sequence in music	Repetition in shapes	Selection in physical computing	Variables in games
	Forwards, backwards, turn, clear, go, commands Instructions, directions Left, right Plan, algorithm, program Route	Instruction, sequence, clear, unambiguous, algorithm, program order, prediction, Artwork, design, route, mat Debugging, decomposition	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 Design, algorithm, bug, debug	Program Turtle — Commands Code snippet Algorithm Design Debug — Logo commands Pattern, repeat, repetition, count-controlled loop, algorithm, value trace, value Decompose procedure	Microcontroller, components, connection, infinite loop output, motor, repetition, count-controlled loop Crumble controller, switch, motor, LED, Sparkle, crocodile clips, connect, battery box, program, condition Input, selection, condition, action debug	Variable, change, name, value Set design, event algorithm, code Task, artwork, program, project, code, test, debug Improve, evaluate, share

Spring 2 Vocabulary	Y1 Key Vocabulary	Y2 Key Vocabulary	Y3 Key Vocabulary	Y4 Key Vocabulary	Y5 Key Vocabulary	Y6 Key Vocabulary
Data and information	Grouping data	Pictograms	Branching databases	Data logging	Flat-file databases	Spreadsheets
	Object, label, group, search, image Property, colour, size, shape Value data set more, less, most, fewest same	More than, less than, most, least, organise, data, object, tally chart, votes, total Pictogram, enter, count explain more common, least common Attribute, group, same, Attribute, compare, conclusion sharing, data	Attribute, value, questions, table, objects Branching database, database, equal, even, separate structure, compare, order, organise selecting decision tree	Data, table, layout Input device, sensor, data logger logging, data point, interval Analyse, data set, import, export logged, collection Analyse, review, conclusion	Database, data, information, record, field, sort, order, group search value, criteria graph, chart, axis, compare, filter presentation	Spreadsheet, data, data heading, data set, cells, columns and rows. data item, , object, application, format, common attribute Formula, calculation, cell reference calculate, operation, range, duplicate, sigma Propose, question organised Graph, chart, evaluate, results

Summer 1 Vocabulary	Y1 Key Vocabulary	Y2 Key Vocabulary	Y3 Key Vocabulary	Y4 Key Vocabulary	Y5 Key Vocabulary	Y6 Key Vocabulary
Creating Media	Creating media Digital writing	Creating media Making music	Creating media Desktop publishing	Creating media Photo editing	Creating media Vector drawing	Creating media 3D Modelling
	Word processor, keyboard, keys, letters, type Numbers, space, backspace, text cursor Capital letters, toolbar, bold, italic, underline Mouse, select, font Undo, redo, font, format Compare, typing, writing	Music, planets, Mars, Venus, war, peace, quiet, loud, feelings, emotions Pattern, rhythm, pulse Neptune, pitch, tempo, notes, instrument, Create, emotion, pitch, pulse/beat Open, edit	Text, images, advantages, disadvantages, communicate Font, font style, communicate, template Landscape, portrait, orientation, placeholder, layout, content Desktop publishing, copy, paste, Purpose benefits	Image, edit, arrange, select, digital, crop, undo, save search, copyright, composition, pixels, rotate, flip adjustments, effects, hue/saturation, sepia, version, illustrator, vignette retouch, recolour, clone, magic wand, adjust, alter, sharpen, brighten fake, real, cut, copy, paste, background, foreground publication, elements, original, border, layer,	Vector, drawing tools, object, toolbar Vector drawing, move, resize, colour, rotate, duplicate/copy Zoom, select, align, modify Layers, Copy, paste, group, ungroup, drawing, reuse Reflection	2D, 3D, shapes, select, move, perspective, view Handles, resize, lift, lower, recolour Rotate, duplicate, group Cylinder, placeholder, hollow 3D shapes, choose, combine Construct, evaluate, modify

Summer 2 Vocabulary	Y1 Key Vocabulary	Y2 Key Vocabulary	Y3 Key Vocabulary	Y4 Key Vocabulary	Y5 Key Vocabulary	Y6 Key Vocabulary
Programming Unit B	Introduction to animation	An introduction to quizzes	Events and actions	Repetition in games	Selection in quizzes	Sensing
	ScratchJr, Bee-Bot, command, sprite, compare, programming, programming area Block, joining, Start block, run, program, , background, delete, reset, algorithm, predict Effect, change, value Instructions, appropriate	Sequence, command, program, run, start outcome, predict, blocks Sprite, algorithm, design, Actions, modify, change Design, build, Compare, debug, features, evaluate match	Motion, event, sprite, algorithm, logic Move, resize, Extension block, pen up, set up Pen, design, event, action, Debugging, errors, setup code, test, debug,	Scratch, programming, sprite, blocks, code, loop, repeat, value infinite loop, count-controlled loop, costume Repetition, forever, , animate, costume, event block, duplicate modify, design debug, refine, evaluate	Selection, condition, true, false, count-controlled loop true, false, outcomes, conditional statement (the linking together of a condition and outcomes), algorithm, program, debug question, answer, algorithm, program, debug Task, Design Implement test, run setup	Micro:bit, MakeCode, input, process, output, flashing, USB, Trace Selection, condition, if then else, variable, random variable, sensing, accelerometer, value Compass, direction, navigation algorithm, step counter Plan, create, code, test, debug

Vocabulary Progression for NCCE Computing Curriculum



Part B Glossary of Computing Terms.

Term	Key Stage	Definition
Algorithm	1&2	A precise set of ordered steps that can be followed by a human or a computer to achieve a task
Attribute (property)	1&2	A word or a phrase that can be used to describe an object such as its colour, size, or price
Browser	2	SEE: Web browser
Code	1&2	The commands that a computer can run
Code snippet	1&2	A section of a program viewed in isolation
Command	1&2	A single instruction that can be used in a program to control a computer
Computer	1&2	A programmable machine that accepts and processes inputs and produces outputs (input, process, output; IPO)
Computer network	2	A group of interconnected computing devices
Computer system	2	A combination of hardware and software that can have data input to it, which it then processes and outputs . It can be programmed to perform a variety of tasks.
Condition	2	A statement that can be either True or False
Condition-controlled loop	2	SEE: Loop (condition-controlled)
Count-controlled loop	2	SEE: Loop (count-controlled)
Data	1&2	A letter, word, number etc. that has been collected for a purpose, but stored without context
Data set	2	A collection of related data
Debugging	1&2	The process of finding and correcting errors in a program
Decompose	2	To break down a task into smaller, more achievable steps

Term	Key Stage	Definition
Digital device	2	A computer or a device with a computer inside that has been programmed for a specific task
Domain name	2	The part of a website's URL that is user friendly and identifies that it is under the control of a particular person or organisation e.g. raspberrypi.org
Execute (run)	2	SEE: Run
Hardware	2	The physical parts of a computer system
HTML (HyperText Markup Language)	2	A standardised language used to define the structure of web pages
Hyperlink	2	(Also: link, weblink) Text or media that when clicked, takes the user to another specified location (URL)
Infinite loop	2	SEE: Loop (infinite)
Information	1&2	Data put into a context that provides meaning
Information technology	1	The study, use, and development of computer systems for storing, processing, retrieving, and sending information
Input	2	Data that is sent to a program to be processed
Input device	2	A piece of hardware used to control, or send data to, a computer
Internet	2	The global system of interconnected computer networks
Loop	2	(Count-controlled, condition-controlled, or infinite) Commands that repeatedly run a defined section of code
Loop (condition-controlled)	2	A command that repeatedly runs a defined section of code until a condition is met
Loop (count-controlled)	2	A command that repeatedly runs a defined section of code a predefined number of times

Term	Key Stage	Definition
Loop (infinite)	2	A command that repeatedly runs a defined section of code indefinitely
Network	2	SEE: Computer network
Object	1	Something that can be named and has other attributes (properties) , which can be labelled
Object	2	Something that is uniquely identifiable and has attributes
Output	2	The result of data processed by a computer
Output device	2	A piece of hardware that is controlled by outputs from a computer
Procedure	2	A named set of commands that can be called multiple times throughout a program . This type of subroutine does not return a value.
Process	2	A program , or part of a program , that is running on a computer
Program	1&2	A set of ordered commands that can be run by a computer to complete a task
Property (attribute)	1	A word or a phrase that can be used to describe an object such as its colour, size, or price
Repetition	2	Part of a program where one or more commands are run multiple times in a loop
Router	2	A device that manages the flow of data between computer networks
Run (execute)	1&2	To action the commands in a program
Selection	2	Part of a program where if a condition is met, then a set of commands is run
Server	2	A networked computer that manages, stores , and provides data such as files to other computers
Software	2	The programs used to control computers and perform specific tasks

Term	Key Stage	Definition
Stored (data)	2	Data kept digitally so that it can be accessed by a computer
Subroutine	2	A named sequence of commands designed to perform a specific task
Switch (network switch)	2	A device that manages the flow of data packets within a computer network
Technology	1	The use of scientific knowledge for practical purposes
URL (Uniform Resource Locator)	2	The address of a file on the internet
Variable	2	A named piece of data (often a number or text) stored in a computer's memory, which can be accessed and changed by a computer program
Web	2	SEE: WWW (World Wide Web)
Web address	2	SEE: URL (Uniform Resource Locator)
Web browser	2	A program used to view, navigate, and interact with web pages
Web page	2	A HTML document viewed using a web browser
Website	2	A collection of interlinked web pages , stored under a single domain
WiFi	2	A technology that allows devices to wirelessly access a network and transfer data
WAP (Wireless Access Point)	2	A network device that allows wireless computing devices to connect to a wired network
WWW (World Wide Web)	2	A service provided via the internet that allows access to web pages and other shared files