



Computing Knowledge and Vocabulary Progression

Strand	EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Computer Science	<p>I know that technology needs to follow instructions so I can give technology specific instructions to perform a task.</p>	<p>I know the correct commands to choose so I can program a simple program.</p> <p>I know how to combine commands to create a simple program so a sprite will move in Scratch Jr.</p> <p>I know how to add features within Scratch Jr so I can create a simple program.</p> <p>I know how to find solutions so I can debug a simple program.</p> <p>I know what the word 'algorithm' means and can explain this to someone else.</p>	<p>I know that a series of instructions creates a sequence so I can predict the outcome of a program.</p> <p>I know that programs need to be designed, tested and debugged so they can perform a specific goal.</p> <p>I know a sequence of commands has an outcome and can show this in a simple program.</p> <p>I know how to design, create, debug and evaluate a program so I create my own simple program.</p>	<p>I know that programming can be done using different software so I can confidently create a project using Scratch.</p> <p>I know that programs can be adapted, developed and debugged so I can create a maze-based challenge using Scratch.</p>	<p>I know that programming can be done using different software so I can confidently create a project using Logo.</p> <p>I know that programming sequences can be repeated so I can decompose a task into small steps and create a program that uses count-controlled loops for a specific outcome.</p> <p>I know that programs can use count-controlled loops so I can design and develop a project that includes repetition.</p>	<p>I know that a programmable physical device can be connected to other digital devices so I can design and create a program, that uses repetition, for a physical device.</p> <p>I know how to debug a program so I can explain how a loop can be used to check whether a specific condition has been met.</p> <p>I know that selection directs the flow of a program so I can explain how this is used effectively.</p> <p>I know that selection directs the flow of a program so I can design, create and evaluate a program, which uses selection.</p>	<p>I know that a variable is something that is changed so I can explain why they are used in programs.</p> <p>I know that a variable is something that is changed so I can use them to design, create and evaluate a game on Scratch.</p> <p>I know that a programmable physical device can be connected to other digital devices so I can design, create and evaluate a program that uses variables, inputs and outputs on a physical device.</p>
Vocabulary Progression	<p>Information, program, computers, turn on, turn off, Google, technology, mobile phone, iPad, tablet, computer mouse, keyboard, BeeBot, instructions,</p>	<p>algorithm, code, command, debug, object, program, technology, run, sprite, predict, software, app,</p>	<p>sequence, outcome, loop, experiment,</p>	<p>condition-controlled loop, execute (run), repetition, selection, organise, design,</p>	<p>count-controlled loop, infinite loop, input, output, variable, project,</p>	<p>output device, physical digital device, crumble kit</p>	<p>micro:bit,</p>



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Digital Literacy	<p>I know that I need a sensible amount of screen time so I can choose a range of non-screen-based activities to do.</p> <p>I know the difference between right from wrong so I can use technology safely and responsibly.</p>	<p>I know a range of technology and can explain how it helps me.</p> <p>I know how to use technology safely so I will be able to explain this to others.</p> <p>I know what personal information is so I can explain what information should and should not be shared with others.</p> <p>I know the internet can be used to search for things and to communicate with other people so I can explain how to use it safely and respectfully.</p>	<p>I know that IT is all around so I can explain how to use it safely and to help me.</p> <p>I know how to use IT safely so I can make correct choices to support me when using it.</p> <p>I know the internet can be used to search for information so I can search for information effectively and safely.</p> <p>I know my actions online leave a digital footprint so I can explain what kind and unkind online behaviour is.</p>	<p>I know what input and output devices are so I can explain how they function.</p> <p>I know the physical components of a computer network so I can explain how they are used to share information.</p> <p>I know what cyberbullying is so I can discuss it with a trusted adult, if it occurs to me.</p> <p>I know that online privacy is important so I can generate strong passwords to protect my personal information.</p> <p>I know the internet can be used to communicate with other people so I can use it safely to do so.</p>	<p>I know that networks physically connect to other networks so I can recognise the devices that make up the internet.</p> <p>I know the World Wide Web (WWW) is accessed using the internet so I can recognise content and evaluate its reliability.</p> <p>I know what cyberbullying is so I can report it correctly, if it occurs to me.</p> <p>I know the internet can be used to communicate with other people so I can explain the appropriate and inappropriate ways to communicate with others online.</p>	<p>I know that computers are connected together so I can explain the role this has within my life.</p> <p>I know that computers are used to search for information so I can safely search for information and recognise which information is reliable.</p> <p>I know tools to keep myself safe so I can use them online and in the real-world.</p> <p>I know that somethings online can be fake so I can evaluate and recognise and explain what, online, I can trust.</p>	<p>I know that data is transferred across the internet so I can explain how sharing data can help people work together.</p> <p>I know that digital technology can be used to communicate with different people so I can safely evaluate an appropriate method of communicating using digital technology.</p> <p>I know what cyberbullying is so I can identify good strategies to deal with it, if it occurs to me.</p> <p>I know the positives and negatives of online relationships so I can identify which information should or should not be shared.</p>
Vocabulary Progression	safely, internet, username, password, technology, respect,	computer, data, information, information technology, hardware, software, respect, search, personal information, digital device, hardware, software,	Wi-Fi, permission, acceptable/unacceptable, private,	information technology, computer network, computer system, network, router, server, cyberbullying, website,	switch, web, web address, website, WWW, reliable, reporting, address bar,	copyright, spam, illegal, digital footprint,	victim, secure, site, domain, browser, media, stereotype, online media, message.



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Information Technology	<p>I know that there are different types of technology so I can explore how they work.</p> <p>I know that technology can be used to express myself so I can use to create new things.</p>	<p>I know how to use appropriate software and tools so I can create a digital painting.</p> <p>I know how to open, create and edit in word processing software so I can create digital writing.</p>	<p>I know the photographs can be taken digitally so I can choose the correct hardware and software to take a digital photography.</p> <p>I know the correct software and tools so I can edit a digital photograph.</p> <p>I know that music can be created digitally so I can choose the correct hardware and software to create and refine some digital music.</p>	<p>I know that animations are a sequence of images so I can plan, create and evaluate a stop-frame animation.</p> <p>I know that text and images convey information so I can choose the appropriate software and tools to publish media, for a specific purpose.</p>	<p>I know that sound can be captured and manipulated using a digital device so I can plan, create and evaluate my own podcast.</p> <p>I know that digital images can be edited and manipulated so I can edit, combine and evaluate different images for a specific purpose.</p>	<p>I know that videos can be captured and manipulated using a digital device so I can create a storyboard, capture, evaluate and edit videos to create a short video clip.</p> <p>I know that digital drawing tools can be used to produce an image combining different shapes and layers so I can design and create my own vector drawing using a digital device.</p>	<p>I know that some images are copyrighted so I can choose the correct images for a project.</p> <p>I know that websites have a range of web pages, with different features, so I can describe why navigation paths and links are useful.</p> <p>I know that 3D models can be created using a digital device so I can plan, create and edit my own digital 3D model.</p>
Vocabulary Progression	<p>log on, typing, keyboard, mouse, left/right click, sharing,</p>	<p>create, edit, app, software, device, iPad, tablet, image, undo, evaluate, word processing, save, open, font, colour, size, tools, text,</p>	<p>capture, safely, hardware, open, effects, online, internet, notes, tempo, rhythm, pattern, review, edit, listen, explore, improve, rotate,</p>	<p>animation, stop-motion, sequence, frame, storyboard, consistency, feedback, media, return, backspace, shift, template, organisation, publish, layout,</p>	<p>input/output devices, copyright, record, podcasts, effects, export, crop, composition, filters, retouching, selection, project,</p>	<p>vector, duplicate, layers, complex, detail, group, ungroup, production, analysing, record, camera, angles, purpose, filming, techniques, script, take, retake,</p>	<p>3D model, lift, lower, combine, recolour, manipulate, accurately, modify, HTML, web page, features, structure, implications,</p>