

Strand	EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Computer Science							
Programming, including Controlling Hardware	I can understand a large task as smaller steps (links to algorithms and decomposition)	I can understand and create algorithms (steps or rules as instructions, e.g. how to make a sandwich)	I can predict the behaviour of simple programs	I can create a sequence of commands to produce a given outcome	I can create a program that uses loops to achieve a particular outcome	I can use selection in my programs. (Also known as conditionals or If / Then statements). (e.g. if a character moves onto a yellow square, then gain two points)	I can identify examples of information that is variable
		I understand that algorithms must be precise and unambiguous	I can create and run a program (an algorithm or multiple algorithms that can be understood by a computer)	I can recognise that the order of commands will produce a different outcome	I can recognise that some programs can be run at the same time (concurrency)	I can use if... then... else... statement that will result in different outcomes	I can use variables of my own creation within my programs
			I can debug (find and fix a problem) within a simple program	I can control or simulate programmable hardware (e.g. a Sphero robot)	I can decompose (break into smaller chunks) a programming problem	I can create an 'if... then... else...' statement that will result in different outcomes	I can program and debug multiple functions on programmable hardware (e.g. with a Microbit)
						I can explain that instructions in a program will produce specific outcomes	
						I can create and modify a count or event-controlled loop	

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Information Technology							
Knowledge & Understanding	<i>I can talk about technology, using pictures and memory recall</i>	<i>I can identify examples of technology in the classroom</i>	<i>I can identify the major parts of digital devices (e.g. keyboard, screen, power, batteries, touchscreen)</i>	<i>I can identify networked devices around me (e.g. networked printer, wireless laptop)</i>	<i>I can recognise that the world wide web is part of the internet</i>	<i>I can recognise the different roles of computer systems in our lives</i>	<i>I can identify questions that can be answered using spreadsheet data</i>
	<i>I can explore apps on a touchscreen, large interactive screen or laptop device.</i>	<i>I can place items into groups (e.g. these shapes are all red)</i> <i>I can decide on labels for groups (e.g. these shapes all have four sides)</i>	<i>I can identify information technology in the school, home, and beyond</i> <i>I can enter data into a computer system</i> <i>I can use a computer to present data</i> <i>I can use a computer to answer questions on data</i>	<i>I can identify inputs and outputs of common computing devices (e.g inputs: keys on a keyboard, temperature sensor, tilting a device; outputs: screen display, printer)</i> <i>I can use technology to organise and manipulate digital content</i> <i>I can create questions with yes / no answers to categorise objects</i> <i>I can retrieve information from different levels of a branching database</i>	<i>I can identify inputs and outputs of common computing devices (e.g inputs: keys on a keyboard, temperature sensor, tilting a device; outputs: screen display, printer)</i> <i>I can use technology to organise and manipulate digital content</i> <i>I can create questions with yes / no answers to categorise objects</i> <i>I can retrieve information from different levels of a branching database</i>	<i>I understand that the global interconnection of networks is the internet</i> <i>I can use a digital device to collect data automatically</i> <i>I can choose how often to collect data samples</i>	<i>I understand that connections between computers allow us to work together</i> <i>I understand that emails and other digital communications can be sent and received from various types of digital device</i> <i>I can choose multiple criteria to search data to answer a given question (AND and OR)</i> <i>I can choose which attribute to sort data by to answer a given question</i> <i>I can choose an appropriate graph to visually compare data</i>

Multimedia and Sound	I can experience and talk about pictures, video and sound that are viewed through digital devices	I can use an app or website to make graphical marks or pictures	I can use technology to capture (e.g. with an iPad) and manipulate (position, re-size, rotate) photos	I can design and create an animation (e.g. stop-frame animation on an iPad)	I can plan for a podcast or music production	I can edit video , bringing together different media elements (e.g. stills, video, captions and sound) to produce an effective final product	I can recognise the common features of a web page
			I can create and adjust audio using digital technology	I can recognise that different font styles and effects are used for particular purposes	I can record and edit sound using digital technology as part of a podcast or music production	I can create a vector drawing that is comprised of lines and shapes of different colours	I can devise my own web design which contains navigation paths (menus, hyperlinks etc.)
					I can edit images for purpose	I can resize, duplicate, rotate and align objects in vector drawings	I can recognise the difference when working with 3D objects in comparison to 2D shapes
					I can manipulate and adjust images for a particular purpose	I can use grouping and layers in my vector drawing	I can produce a 3D model and decide how it can be improved (e.g. using Tinkercad)

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Digital Literacy							
Operational Core Skills	I can use hand-eye coordination to operate devices such as touch-screens	I can use apps or websites to aid my learning I can save and retrieve work that I have produced	I can type and edit basic text I can use two-finger scrolling on a touchpad	I know how to search for items on the internet I can type confidently and independently I can type basic punctuation	I can type to achieve specific goals, including accurate punctuation I can check and correct my spellings digitally	I can edit and improve on-screen writing , including digital thesaurus use I can combine a variety of software (programs that run on computers) to	I can re-order on-screen sentences for clarity, purpose or effect I can type at speed with accurate spelling and use of

		(includes auto-save) <i>I can move a cursor with the trackpad and click on an icon</i>	<i>I can use the shift key to create capital letters</i>	<i>correctly within on-screen writing (spaces, commas, full stops, question marks) <i>I can perform a two-finger click or right-click to access additional options</i></i>	<i>I can successfully use multiple apps or web browser tabs at the same time</i>	<i>accomplish given goals</i>	<i>punctuation conventions</i>
Self-image and Identity	<i>I know that being on-screen is different to real life.</i>	<i>If something happens that makes me feel sad, worried, uncomfortable or frightened I can give examples of when and how to speak to an adult I can trust.</i>	<i>I can describe ways in which people might make themselves look different online.</i>	<i>I can describe ways in which media can shape ideas about gender.</i>	<i>I can explain how my online identity can be different to the identity I present in 'real life'.</i>	<i>I can explain how identity online can be copied, modified or altered.</i>	<i>I can explain how I can represent myself in different ways online.</i>
Online relationships	<i>I recognise that people can talk to each other using technologies.</i>	<i>I can recognise some ways in which the internet can be used to communicate.</i>	<i>I can explain some risks of communicating online with others I don't know well.</i>	<i>I can explain how my and other people's feelings can be hurt by what is said or written online.</i>	<i>I can explain what it means to 'know someone' online and why this might be different from knowing someone in real life.</i>	<i>I can explain how impulsive and rash communications online may cause problems (e.g. flaming, content produced in live streaming).</i>	<i>I can demonstrate how I would support others (including those who are having difficulties) online.</i>
Online reputation	<i>I can talk about different types of information on the internet, e.g. pictures / text / video.</i>	<i>I can describe what information I should not put online without asking a trusted adult first.</i>	<i>I can explain how information put online about me can last for a long time.</i>	<i>I know who I should ask if I am not sure if I should put something online.</i>	<i>I can describe how others can find out information about me by looking online.</i>	<i>I can describe ways that information about people online can be used by others to make judgments about an individual.</i>	<i>I can describe some simple ways that help build a positive online reputation.</i>

Online bullying	I know that people can be kind, or might be unkind, online.	I can describe how to behave online in ways that do not upset others		<i>I can describe rules about how to behave online and how I follow them.</i>	I can explain why I need to think carefully about how content I post might affect others, their feelings and how it may affect how others feel about them (their reputation).	I can explain how I would report online bullying on the apps and platforms that I use.	I can identify a range of ways to report concerns both in school and at home about online bullying.
Managing online information	<i>I can use, talk about or read different on-screen programs, pictures, stories or information.</i>	<i>I can identify devices I could use to access information on the internet.</i>	<i>I can demonstrate how to navigate a simple webpage to get to information I need (e.g. home, forward, back buttons; links, tabs and sections).</i>	<i>I can evaluate digital content and can explain how I make choices from search results.</i>	<i>I can analyse information and differentiate between 'opinions', 'beliefs' and 'facts'.</i>	<i>I can explain why lots of people sharing the same opinions or beliefs online does not make those opinions or beliefs true.</i>	<i>I can demonstrate strategies to enable me to analyse and evaluate the validity of 'facts' and I can explain why using these strategies are important.</i>
Health, well-being and lifestyle	<i>I can talk about the difference between activities that are online or offline.</i>	<i>I can explain rules to keep us safe when we are using technology both in and beyond the home.</i>	<i>I can create rules for using technology safely</i>	<i>I can identify situations when I might need to limit the amount of time I use technology.</i>	<i>I can describe ways technology can affect healthy sleep and can describe some of the issues.</i>	<i>I can describe common systems that regulate age-related content (e.g. PEGI, BBFC, parental warnings) and describe their purpose.</i>	<i>I can assess and action different strategies to limit the impact of technology on my health (e.g. nightshift mode, regular breaks, correct posture, sleep, diet and exercise).</i>
Privacy and security	<i>I can talk about trusting people (e.g. parents, teachers).</i>	<i>I can identify some simple examples of my personal information (e.g. name, address,</i>	<i>I can explain why I should always ask a trusted adult before I share any information about myself online.</i>	<i>I can describe simple strategies for creating and keeping passwords private.</i>	<i>I can explain how internet use can be monitored.</i>	<i>I can explain how many free apps or services may read and share my private information (e.g. friends, contacts,</i>	<i>I can compare and evaluate different methods of online communication</i>

		<i>birthday, age, location).</i>				<i>likes, images, videos, voice, messages, geolocation) with others.</i>	
Copyright and ownership	<i>I know that work I create belongs to me.</i>	<i>I can name my work so that others know it belongs to me.</i>	<i>I can recognise that content on the internet may belong to other people.</i>	<i>I can explain why copying someone else's work from the internet without permission can cause problems.</i>	<i>When searching on the internet for content to use, I can explain why I need to consider who owns it and whether I have the right to reuse it.</i>	<i>I can demonstrate the use of search tools to find and access online content which can be reused by others.</i>	<i>I can recognise the implications of linking to (and using) content owned by other people</i>