



Key Skills

Technology being used effectively in the classroom

Awareness of e-safety

How technology is used

Strand	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6		
	Computer Science							
Programming	I can understand and create algorithms (steps or rules as instructions, e.g. how to make a sandwich) I understand that algorithms must be precise and unambiguous	I can predict the behaviour of simple programs I can create and run a program (an algorithm or multiple algorithms that can be understood by a computer) I can debug (find and fix a problem) within a simple program	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 create variables within my programs (e.g. a timer, score)	I can use repetition (sometimes referred to as loops) in my programs. I can debug programs multiple times to accomplish specific goals	I can write code that performs calculations with variables (e.g. every time a coin is collected, add one point to the score) I can decompose (break into smaller chunks) a programming problem	I can use a random function in my code for purposeful effect (e.g. a program randomly chooses a number from 1-4 and displays a corresponding statement) I can produce a multi- function, debugged program that uses variables, selection		
Controlling hardware and machines	I can identify the major parts of digital devices (e.g. keyboard, screen, power, batteries, touchscreen)	I understand that digital devices run programs that have been created by humans	I can control or simulate programmable hardware (e.g. a Sphero robot)	I can identify inputs of common computing devices (e.g keys on a keyboard, temperature sensor, tilting a device) I can identify the outputs of common computing devices (e.g. display on a screen, Bluetooth signal, print)	I can create code that acts on multiple inputs I can create code that produces multiple outputs	and repetition. I can program and debug multiple functions on programmable hardware (e.g. with a Microbit)		





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Information Technology							
Operate, Understand and Implement	I can use apps and websites to aid my learning I can save and retrieve work that I have produced (includes auto-save) I can move a cursor with the trackpad and click on an icon	I can type and edit text I can use two-finger scrolling on a touchpad I understand that emails and other digital communications can be sent and received from various types of digital device	I know how to search for items on the internet I can use technology to organise and manipulate digital content I can type to achieve a specific goal I can perform a two-finger click to access additional options	I can present collected information or data to a group or audience I can type to achieve a specific goal, including accurate punctuation and spelling check I can use technical vocabulary to describe how computing equipment and networks function, including storage (e.g. USB drives, Google drive), apps and the world wide web	I can edit and improve on-screen writing, including digital thesaurus use I can collaborate meaningfully with networked technologies (for example, within a shared document or shared workspace) I can combine a variety of software (programs that run on computers) to accomplish given applications.	I can collect and analyse data or information using technology (e.g. use a spreadsheet to produce a graph) I can make document layout and design decisions based on purpose (e.g. format a formal letter) I can re-order on-screen sentences for clarity, purpose or effect	
Multimedia and Sound	I can use technology to capture photos (e.g. with an iPad)	I can use technology to capture and manipulate (position, re-size, rotate) photos as part of a piece of work	I can create video as part of my learning (e.g. using an iPad) I can create an animation (e.g. stopframe animation on an iPad)	I can create sound, music or a podcast using digital technology I can create a 3D graphic using computer-aided design software (e.g. using TInkercad)	I can edit video, bringing together different media elements (e.g. stills, video, captions and sound) to produce an effective final product I can storyboard and create an animation	I can design, create and edit sound, music, or a podcast using digital technology I can design, create and modify 3D graphics for purpose using computer-aided design software (e.g. using Tinkercad)	





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Digital Literacy								
Self-image and Identity	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 can describe ways in which people might make themselves look different online.	I can describe ways in which media can shape ideas about gender.	I can explain how my online identity can be different to the identity I present in 'real life'.	I can explain how identity online can be copied, modified or altered.	I can explain how I can represent myself in different ways online.		
Online relationships	I can recognise some ways in which the internet can be used to communicate.	I can explain some risks of communicating online with others I don't know well.	I can explain how my and other people's feelings can be hurt by what is said or written online.	I can explain what it means to 'know someone' online and why this might be different from knowing someone in real life.	I can explain how impulsive and rash communications online may cause problems (e.g. flaming, content produced in live streaming).	I can demonstrate how I would support others (including those who are having difficulties) online.		
Online reputation	I can describe what information I should not put online without asking a trusted adult first.	I can explain how information put online about me can last for a long time.	I know who I should ask if I am not sure if I should put something online.	I can describe how others can find out information about me by looking online.	I can describe ways that information about people online can be used by others to make judgments about an individual.	I can describe some simple ways that help build a positive online reputation.		
Online bullying	I can describe how to behave online in ways that do not upset others		I can describe rules about how to behave online and how I follow them.	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 can identify devices I could use to access information on the internet.	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 can evaluate digital content and can explain how I make choices from search results.	I can analyse information and differentiate between 'opinions', 'beliefs' and 'facts'. I understand what criteria have to be met before something is a 'fact'	I can explain why lots of people sharing the same opinions or beliefs online does not make those opinions or beliefs true.	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.
Health, well- being and lifestyle	I can explain rules to keep us safe when we are using technology both in and beyond the home.	I can explain simple guidance for using technology in different environments and settings.	I can identify situations when I might need to limit the amount of time I use technology.	I can describe ways technology can affect healthy sleep and can describe some of the issues.	I can describe common systems that regulate agerelated content (e.g. PEGI, BBFC, parental warnings) and describe their purpose.	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).
Privacy and security	I can identify some simple examples of my personal information (e.g. name, address, birthday, age, location).	I can explain why I should always ask a trusted adult before I share any information about myself online.	I can describe simple strategies for creating and keeping passwords private.	I can explain how internet use can be monitored.	I can explain how many free apps or services may read and share my private information (e.g. friends, contacts, likes, images, videos, voice, messages, geolocation) with others.	I can describe ways in which some online content targets people to gain money or information illegally; I can describe strategies to help me identify such content (e.g. scams, phishing).
Copyright and ownership	I can name my work so that others know it belongs to me.	I can recognise that content on the internet may belong to other people.	I can explain why copying someone else's work from the internet without permission can cause problems.	I can assess and justify when it is acceptable to use the work of others.	I can demonstrate the use of search tools to find and access online content which can be reused by others.	I can demonstrate how to make references to and acknowledge sources I have used from the internet.



