



CPD & consultation for busy schools that need to make informed ICT choices.

Tested practice; real solutions
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suppliers and manufacturers.

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 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	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	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-	
		I can <b>debug</b> (find and fix a problem) within a simple program	within my programs (e.g. a timer, score)		problem	function, debugged program that uses variables, selection and repetition.	
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	I can create code that acts on multiple inputs  I can create code that produces multiple outputs	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 appals	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 <b>technology</b> to capture photos (e.g. with an iPad)	I can use <b>technology</b> 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 <b>internet</b> 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 <b>online</b> 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.		



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Managing online	I can identify devices I	I can demonstrate	I can evaluate digital	I can <b>analyse</b>	I can explain why lots	I can demonstrate
information	could use to access	how to navigate a	content and can	information and	of people sharing the	strategies to enable
,	information on the	simple webpage to	explain how I make	differentiate between	same opinions or	me to analyse and
	internet.	get to information I	choices from search	'opinions', 'beliefs'	beliefs online does	evaluate the validity
		need (e.g. home,	results.	and 'facts'. I	not make those	of 'facts' and I can
		forward, back		understand what	opinions or beliefs	explain why using
		buttons; links, tabs		criteria have to be	true.	these strategies are
		and sections).		met before		important.
				something is a 'fact'		
Health, well-	I can explain rules to	I can explain simple	I can identify	I can describe ways	I can describe	I can assess and
being and	keep us safe when we	guidance for using	situations when I	technology can affect	common systems	action different
lifestyle	are using technology	technology in	might need to limit	healthy sleep and can	that regulate age-	strategies to limit the
. ,	both in and beyond the home.	different	the amount of time I	describe some of the	related content (e.g.	impact of technology
	the nome.	environments and	use technology.	issues.	PEGI, BBFC, parental	on my health (e.g.
		settings.			warnings) and describe their	nightshift mode,
						regular breaks,
					purpose.	correct posture, sleep, diet and
						exercise).
Privacy and	I can identify some	I can explain why I	I can describe simple	I can explain how	I can explain how many	I can describe ways in
•	simple examples of	should always ask a	strategies for	internet use can be	free apps or services	which some online
security	my personal	trusted adult before I	creating and keeping	monitored.	may read and share my	content targets people
	information (e.g.	share any	passwords private.	momeorea.	private information	to gain money or
	name, address,	information about	pusswords private.		(e.g. friends, contacts,	information illegally; I
	birthday, age,	myself online.			likes, images, videos,	can describe strategies
	location).	yoo, oe.			voice, messages, geolocation) with	to help me identify such
	,				others.	content (e.g. scams, phishing).
Copyright and	I can name my work	I can recognise that	I can explain why	I can assess and	I can demonstrate	I can demonstrate
	so that others know it	content on the	copying someone	justify when it is	the use of search	how to make
ownership	belongs to me.	internet may belong	else's work from the	acceptable to use the	tools to find and	references to and
	, and the second	to other people.	internet without	work of others.	access online content	acknowledge sources
			permission can cause		which can be reused	I have used from the
			problems.		by others.	internet.