



Year 1 – Computing Overview



Information Technology

NC Objectives	Computing strand	Skills/Knowledge	Apps/Software	Subject/Lessons
Use technology purposefully to create, organise, store, manipulate and retrieve digital content	Word processing / typing	<ul style="list-style-type: none"> Confidently type words correctly on a digital device Use the space bar to make space and to delete letters/words Make a new line using enter/return Dictate into a digital device accurately allowing for punctuation 	Pic collage Seesaw Google Docs Book creator	Literacy History
	Data handling	<ul style="list-style-type: none"> Sort/move images or text categories on a digital device Collect data on topic Create a simple tally chart/pictogram 	Seesaw Pic collage Graphs	Science Maths
	Presentations, web design and eBook creation	<ul style="list-style-type: none"> Add voice labels to an image Add speech bubbles/text to an image Import images to a piece of work from the camera roll 	Seesaw Puppet Edu Pic collage	Literacy
	Animation	<ul style="list-style-type: none"> Add filters and stickers to enhance a character's photo's appearance Create an animation to tell a story with more than once scene Add my own pictures to my story animation 	Puppetpals Chatterkid Seesaw	Literacy
	Video Creation	<ul style="list-style-type: none"> Record a film using the camera app Select images and record a voiceover 	iPad camera puppet Edu DoInk	PSHE P4C
	Photography and digital art	<ul style="list-style-type: none"> Edit a photo with simple tools (filters/colours/stickers/etc) Use a paint/drawing app to create a digital image Begin to cut and shape images before use 	iPad camera Puppet Edu Chatterkid Photobooth	Art
	Augmented reality and virtual reality	<ul style="list-style-type: none"> Explore an interactive 360 image Scan a 'trigger image' to begin an AR experience Pretend to interact with AR objects 	Leo AR camera Figment AR Google expeditions	Geography History
	Sound	<ul style="list-style-type: none"> Create a sequence of sounds (e.g. instruments or use an app) Explore short and long sounds Record my voice and add different effects 	Seesaw Keezy Voice Memos	Literacy Music



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Computer Science

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Understand what algorithms are, how they are implemented as programs on digital devices and that programs execute by following precise and unambiguous instructions Create and debug simple programs Use logical reasoning to predict the behaviour of simple program	Computational thinking	<ul style="list-style-type: none">• Understand what algorithms are and that sequencing is important• Write simple algorithms• Debug simple algorithms• Understand that algorithms are used within programs		Computing unplugged week Literacy
	Coding and programming	<ul style="list-style-type: none">• Create a simple program / sequence of instructions for BeeBot• Use sequencing in programs• Locate and fix bugs in my program	BeeBots Kodable ScratchJR	Computing

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<p>Recognise common uses of information technology beyond school</p> <p>Use technology safely and respectfully, keeping personal information private</p> <p>Identify where to go for help and support when they have concerns about material on the internet or other online technologies</p>	Self-image and identity	<ul style="list-style-type: none"> Recognise people online may make me feel sad, embarrassed or upset Know when and how to speak to an adult I can trust when something makes me feel sad, worried, uncomfortable or frightened 	Puppet Edu Chatterkid iPad Video	PSHE 'Being Me' PSHE 'Relationships' Safer Internet Day
	Online relationships	<ul style="list-style-type: none"> Use the internet with adult support to communicate with people I know Know why it is important to be considerate and kind to people online 	Puppet Edu iPad Video Chatterkid Social Media (Snapchat, Facebook, Tik Tok) Messaging/Video Chat Email	PSHE 'Relationships' PSHE 'Celebrating Differences' Anti-Bullying Week Safer Internet Day
	Online reputation	<ul style="list-style-type: none"> Understand that information can stay online and could be copied Recognise that information should not be put online without asking a trusted adult first 	Social Media School Website (class pages) School Twitter iPads	Safer Internet Day
	Online bullying	<ul style="list-style-type: none"> Describe how to behave online in ways that do not upset others 	Voice Memos Puppet Edu Video Recording Chatterkid	PSHE 'Relationships' PSHE 'Celebrating Differences' Anti-Bullying Week Mental Health Week
	Managing online information	<ul style="list-style-type: none"> Use the internet to find things out Use simple keywords in search engines Demonstrate how to get help from a trusted adult or helpline if I find content that makes me feel sad, uncomfortable worried or frightened 	Search Engines Google Maps YouTube iPads Computer Voice activated Searching (Siri, Alexa)	All subjects Safer Internet Week Computing Literacy



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	Health, well-being and lifestyle	<ul style="list-style-type: none">• Explain rules to keep us safe when we are using technology both in and beyond the home	IWB Word Doc	Safer Internet Day
	Privacy and security	<ul style="list-style-type: none">• Recognise more detailed examples of information that is personal to me (e.g. where I live, my family's names, where I go to school)• Always ask a trusted adult before sharing information about myself online• Explain how passwords can be used to protect information and devices	iPad Games Social Media Purple Mash	Safer Internet Day
	Copyright and ownership	<ul style="list-style-type: none">• Explain why work I create using technology belongs to me• Say why it belongs to me (e.g. 'it is my idea' or 'I designed it')• Know how to save my work so that others know it belongs to me (e.g. filename, name on content)	Seesaw iPad Camera/Video Word Doc Pic Collage Purple Mash	All Subjects