



Information Technology

NC Objectives	Computing strand	Skills/Knowledge	Apps/Software	Subject/Lessons
Select, use and combine a variety of software (including internet services) on a range of digital devices	Word processing / typing	 Combine digital images from different sources, objects and text to make a final piece of work (e.g. posters, scripts, information texts, powerpoint) Confidently and regularly use shortcuts such as cut, copy and paste Use font sizes appropriately Use spell check and the thesaurus 	Pic collage Seesaw Google Docs Book creator Popplet	Literacy History Geography
Design and create a range of programs, systems and content that accomplish given goals including collecting, analysing, evaluating and presenting data and information	Data handling	 Create online multiple choice questionnaire Input data into a spreadsheet and create a graph/chart Understand how data is collected 	Seesaw Graphs Numbers Google docs Kahoot	Science Maths
	Presentations, web design and eBook creation	 Create an ebook with text, images and sound Create a presentation demonstrating of a range of media like photos, videos or voice Create a digital timeline/mindmap 	Seesaw Adobe Spark page Keynote Powerpoint	Literacy
	Animation	 Take multiple animations of a character and edit them together Use software to create a 3D animated story Use line draw tool to create animations 	Puppetpals Chatterkid Seesaw Puppetmaster	Literacy
	Video Creation	 Add music and sound effects to films Add animated titles and transitions Add simple subtitles to a video clip Confidently use green screen adding animated backgrounds 	puppet Edu Doink Adobe Spark video	PSHE Literacy
	Photography and digital art	 Enhance digital images and photographs using crop, brightness, contrast Manipulate shapes to create digital art Draw a series of images 	iPad camera Mark up Pic collage Sketches pro	Art
	Augmented reality and virtual reality	 Create own 360 video Use the camera to create a 360 image Add multiple objects into surrounds through AR to explain a concept 	AR makr Figment AR Google expeditions	Geography
	Sound	 Edit sound effects for a purpose Create a simple four-chord song following the correct rhythm Record a radio broadcast or audiobook 	Seesaw Keezy Voice Memos Garageband	Literacy Music





Computer Science

NC Objectives	Computing strand	Skills/Knowledge	Apps/Software	Subject/Lessons
Design, write and debug programs that accomplish specific goals including controlling or simulating physical systems Solve problems by	Computational thinking	 Use abstraction to focus on what's important in my design Write increasingly more precise algorithms for use when programming Use simple selection in algorithms Use logical reasoning to detect and correct errors in programs 	Code Studio Alex	Computing unplugged week Literacy
	Coding and programming	 Use simple selection in programs Work with various forms of output Use logical reasoning to systematically detect and correct errors in programs Work with various forms of output 	Code Studio Alex	Computing
decomposing them into smaller parts Sequence, selection and repetition in programs; work	Computer networks	 Understand that servers on the internet are located across the planet Understand how email is sent across the internet Understand how the internet enables us to collaborate 		Computing unplugged
with variables and various forms of input and output Use logical reasoning to explain				
how some simple algorithms work and to detect and correct errors in algorithms				
Understand computer networks including the internet; how they can provide multiple services such as the WWW and the opportunities they offer for communication				
Use search technologies effectively and appreciate how results are selected and ranked				





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Use technology safely, respectfully and responsibly; recognise acceptable/ unacceptable behaviour; identify a range of ways to report concerns about content and contact Understand computer networks including the internet; how they can	Self-image and identity	 Explain how my online identity can be different to the identity I present in 'real life' Describe the right decisions about how I interact with others and how others perceive me 	Puppet Edu Chatterkid iPad Video Snapseed	PSHE 'Being Me' PSHE 'Relationships' Safer Internet Day
	Online relationships	 Describe strategies for safe and fun experiences in a range of online social environments Understand how to be respectful to others online 	Puppet Edu iPad Video Chatterkid Social Media (Snapchat, Facebook, Tik Tok) Messaging/Video Chat	PSHE 'Relationships' Safer Internet Day Anti-Bullying Week
provide multiple services, such as the world-wide web; and the opportunities they offer for communication and collaboration	Online reputation	 Describe how others can find out information about me by looking online Explain ways that some of the information about me online could have been created, copied or shared by others 	Social Media School Website (class pages) School Twitter iPads	Safer Internet Day Mental Health Week
Use search technologies effectively, appreciate how results are selected and ranked, and be discerning in evaluating digital content	Online bullying	 Identify some online technologies where bullying might take place Describe ways people can be bullied through a range of media (e.g. image, video, text, chat) Explain why the content I post might affect others, their feelings and how it may affect how others feel about them (their reputation) 	Voice Memos Puppet Edu Video Recording Chatterkid iPad Camera/Video	PSHE 'Relationships' PSHE 'Celebrating Differences' Anti-Bullying Week
	Managing online information	 Analyse information and differentiate between 'opinions', 'beliefs' and 'facts'. Understand what criteria have to be met before something is a 'fact' Search for information within a wide group of technologies (e.g. social media, image sites, video sites) Describe some of the methods used to encourage people to buy things online (e.g. advertising offers; in-app purchases, pop-ups) and can recognise some of these when they appear online 	Search Engines Google Maps YouTube iPads Computer Voice activated Searching (Siri, Alexa)	All subjects Safer Internet Week Literacy



	Explain that some people online (e.g. through social media) may be	Social Media	
	computer programmes pretending to be real people		
	 Explain why lots of people sharing the same opinions or beliefs online 		
	does not make those opinions or beliefs true		
Health, well-being and lifestyle	• Explain how using technology can distract me from other things I might	YouTube	Safer Internet Day
	do or should be doing	Stop Watch	P.E.
	 Identify times or situations when I might need to limit the amount of 	Alarm	Timetable
	time I use technology and strategies to help me limit this time		
Privacy and security	Explain what a strong password is	iPad Games	Safer Internet Day
	 Describe strategies for keeping my personal information private, 	Social Media	
	depending on context	Snapseed	
	 Explain that others online can pretend to be me or other people, 	Purple Mash	
	including my friends and suggest reasons why they might do this		
	Explain how internet use can be monitored		
Copyright and ownership	When searching on the internet for content to use, explain why I to	Search Engines	All Subjects
	consider who owns it and whether I have the right to reuse it		-