

Computing Curriculum

Years 1 and 2

	Topic	Activities	Resources
Year One			
Autumn 1	E-safety	Stories appropriate to Key Stage One surrounding E-safety	Digiduck, Smartie the Penguin
Autumn 2	Digital Literacy and ICT	Switching a computer on and off; accessing programmes	Laptops, iPads, shared folders, internet browser, Word, Powerpoint
Spring 1	E-safety	kidSMART – know the SMART rules to stay safe online	KidSMART
	Computer Science	Bee-bots – writing algorithms with flashcards	Bee-bot algorithm cards
Spring 2	Digital Literacy and ICT	Use photos and microphone to report on a trip or activity	ExplainEverything, Powerpoint, Word, Google Apps
Summer 1	E-safety	Using the Web safely	BBC Computing KS1 – How Can You Use the Web Safely?
	Computer Science	Creating simple programmes	Scratch Jr (iPads)
Summer 2	Digital Literacy and ICT	Researching for information independently	Google, Safesearchkids website, kidsclick.org
Year Two			
Autumn 1	E-safety	Stories appropriate to age surrounding E-safety	Digiduck, Smartie the Penguin
Autumn 2	Digital Literacy and ICT	Word processing and presentation software	Powerpoint, Word
Spring 1	E-safety	Keeping your personal details safe	Lee and Kim
	Computer Science	Bee-bots – writing algorithms with flashcards	Bee-bot algorithm cards
Spring 2	Digital Literacy and ICT	Use photos and microphone to report on a trip or activity	ExplainEverything, Powerpoint, Word, Google Apps
Summer 1	E-safety	Reliability of information found online	webfronter.com/rbkc/tomatospider
	Computer Science	Creating simple programmes	Scratch Jr (iPads)
Summer 2	Digital Literacy and ICT	Researching for information independently	Google, Safesearchkids website, kidsclick.org

Years 3 and 4

	Topic	Activities	Resources
Year Three			
Autumn 1	E-safety	Use SMART rules to create a 'How to be safe online' video, poster or presentation	KidSMART.org
	Computer Science	'Jam Sandwich' instructions – clear and concise programming	Code-it.co.uk/unplugged/jamsandwich
Autumn 2	Digital Literacy and ICT	Use photos and microphone to report on a trip or activity using ExplainEverything	ExplainEverything
Spring 1	E-safety	Getting help	'The Adventures of Kara Winston and the Smart Crew' on childnet.com
	Computer Science	Algorithms on iPads or computers	iPad – Lightbot and Cargobot
Spring 2	Digital Literacy and ICT	How a network works	Code-it.co.uk/netintsearch
Summer 1	E-safety	Judging the reliability of Information online	'The Adventures of Kara Winston and the Smart Crew' on childnet.com
	Computer Science	Coding programmes with increasing complexity (specifically using 'If' and 'When' statements)	Scratch Jr (iPads); scratchjr.org/teach (activities 8 and 9)
Summer 2	Digital Literacy and ICT	Using the internet to research information and presenting that information using a variety of software and apps	Google Docs/Word, Google Slides/Powerpoint, Explain Everything, iMovie
	Computer Science	Introduction to Scratch (as opposed to Scratch Jr.) on computers and iPads	Scratch
Year Four			
Autumn 1	E-safety	Use SMART rules to create a 'How to be safe online' video, poster or presentation	KidSMART.org
	Computer Science	Flowcharts for algorithms – playground games	Code-it.co.uk/unplugged/playgroundgames
Autumn 2	Digital Literacy and ICT	Use photos and microphone to report on a trip or activity using ExplainEverything	ExplainEverything

Spring 1	E-safety	Keeping your details safe	'The Adventures of Kara Winston and the Smart Crew' on childnet.com
	Computer Science	Algorithms on iPads or computers	iPad – Lightbot and Cargobot
Spring 2	Digital Literacy and ICT	Searching the Internet	
Summer 1	E-safety	Meeting people online	'The Adventures of Kara Winston and the Smart Crew' on childnet.com (Chapter 5)
	Digital Literacy and ICT	Using the internet to research information and presenting that information using a variety of software and apps	Google Docs/Word, Google Slides/Powerpoint, Explain Everything, iMovie
Summer 2	Computer Science	Scratch programming: changing the colours of characters and controlling an object to create a game	Code-it.co.uk/scratch/dressingup Code-it.co.uk/scratch/smokingcar

Years 5 and 6

	Topic	Activities	Resources
Year Five			
Autumn 1	E-safety	Digital Footprints	Kidsmart.org.uk/digitalfootprints
	Computer Science	Programming a face	The Emotion Machine activity on teachinglondoncomputing.org
Autumn 2	Digital Literacy and ICT	Using the internet to research topic work	Google Docs/Word
Spring 1	E-safety	Reliability of Information on the internet	www.uncyclopaedia (Is the Moon made of cheese?)
	Computer Science	Scratch programming	Code-it.co.uk/csplanning
Spring 2	Digital Literacy and ICT	What is the World Wide Web?	Bbc.co.uk/guides/s2nbgk7
Summer 1	E-safety	Social networking	Keeping Your Information Private on YouTube
	Computer Science	Scratch programming	Code-it.co.uk/csplanning
Summer 2	Computer Science	Entering code using text	Raspberry Pi

Year Six			
Autumn 1	E-safety	Overview of online risks	ThinkUKnow Cyber Cafe
	Computer Science	Spelling and Grammar algorithms	Code-it.co.uk/spellingalgorithms
Autumn 2	Digital Literacy and ICT	Using the internet to research topic work	Google Docs/Word
Spring 1	E-safety	Compare ThinkUKnow's 'Staying in Control' and 'Having Fun' for the range of online activities	Thinkuknow.co.uk/8_10/fun/
	Computer Science	Debugging programmes and programmes of increasing complexity	Code-it.co.uk/csplanning Scratch Planning (programmes become more complex as you move down the list)
Spring 2	Digital Literacy and ICT	Tracing the Internet – how information travels over the internet and where it comes from	Code-it.co.uk/netintsearch
Summer 1	E-safety	Safe searching	Kidsmart.org.uk/teachers/KS2/lessonplans
	Computer Science	Debugging programmes and programmes of increasing complexity	Code-it.co.uk/csplanning Scratch Planning (programmes become more complex as you move down the list)
Summer 2	Computer Science	Debugging programmes and programmes of increasing complexity	Code-it.co.uk/csplanning Scratch Planning (programmes become more complex as you move down the list)