

Year	Aut	umn	Spi	ring	Sum	nmer		
group								
Seedlings	To support pupils with computing skills all Children learn to:							
(N2)	Turn an iPad on and off.							
	Use cause and effect toys such as push and pull to make objects move.							
	Engage with videos, songs and clips on digital devices such as iPads and interactive whiteboards.							
Acorns	To support pupils with computing skills all Children learn to:							
(N3)	Navigate to a chosen app on an iPad.							
	Play an age appropriate interactive game on an iPad.							
	Play an age appropriate interactive game on the interactive whiteboard.							
	Press stop and go buttons on interactive toys such as Bee Bots and remote controlled cars.							
Reception		nputing skills all Children lea	irn to:					
		n an iPad up or down.						
	Take a photograph with the camera app on an iPad.							
	, , , ,	oriate interactive game on a						
	Play an age appropriate interactive game on the interactive whiteboard. Select the tools that they would like to use from the menu on these games, for							
	example, different colours or shapes on drawing games.							
	Press directional buttons on interactive toys such as Bee Bots and remote controlled cars to control their direction.							
	Turn on a CD player and play a CD.							
	Skip a track or stop a track.							
Year 1	Computing systems and	Programming 1:	Skills showcase: Rocket	Programming 2: Bee-	Creating media: Digital	Data handling:		
	networks: Improving	Algorithms unplugged	to the moon	Bot	imagery	Introduction to data		
	mouse skills	Learning about	Developing keyboard	Developing early	Developing photography	Learn what data is and		
	Learning how to login	algorithms, debugging	and mouse skills	programming skills	skills and enhance	the different ways that it		
	and navigate around a	and decomposition by	through designing.	using either the Bee:Bot	photos using editing	can be represented and		
	computer and develop	giving specific		or virtual Bee:Bot.	tools.	develop an		
	mouse skills.	instructions.				understanding of why		
						data is useful.		
	Online safety	Online safety	Online safety	Online safety	Online safety			
	,		,			Online safety		



Year	Autumn		Spring		Summer	
group Year 2	Computing systems and networks 1: Identify what a computer is and learn how inputs and outputs work.	Programming 1: Algorithms and debugging Learn what algorithms are, how to program them and how they can	Computing systems and networks 2: Word processing Introduce important keyboard shortcuts, as well as simple editing	Programming 2: ScratchJr Explore what 'blocks' do using the app 'ScratchJr,' by carrying out an informative cycle	Creating media: Stop motion Storyboarding and simple animation creation using either tablet devices or devices	Data handling: International Space Station The International Space Station (ISS) is a fascinating real-world
	Online safety	be developed to be more efficient with an introduction of loops. Online safety	tools within a word processor including: bold, italics, underline and font colour as well as how to import images. Online safety	of predict, test and review. Online safety	with cameras. Online safety	setting for teaching how data is collected, used and displayed as well as the scientific learning of the conditions needed for plants and animals, including humans, to survive. Online safety
Year 3	Computing systems and networks 1: Networks and the internet Introduction to the concept of networks, learning how devices communicate. Identifying components, learning how information is shared and exploring examples of real-world networks. Online safety	Programming: Scratch Progress to using the more advanced computer-based application called 'Scratch', learning to use repetition or loops and building upon skills to program; an animation, a story and a game. Online safety	Computing systems and networks 2: Emailing Learning how to send emails with attachments and how to be a responsible digital citizen by thinking about the contents of what is sent. Online safety	Computing systems and networks 3: Journey inside a computer Assuming the role of computer parts and creating paper versions of computers helps to consolidate an understanding of how a computer works, as well as identifying similarities and differences between various models.	Creating media: Video trailers Developing filming and editing video skills through the storyboarding and creation of book trailers. Online safety	Data handling: Comparison cards databases Using the theme of a 'Comparison cards game' (based on the popular game Top Trumps) understand what a database is by learning the meanings of records, fields and data. Online safety



Year group	Autumn		Spring		Summer	
вгоир				Online safety		
Year 4	Computing systems and networks: Collaborative learning Working collaboratively in a responsible and considerate way as well as looking at a range of collaborative tools. Online safety	Programming 1: Further coding with Scratch Using variables in coding. Online safety	Creating media: Website design Children develop their research, word processing, and collaborative working skills whilst learning how web pages and web sites are created, exploring how to change layouts, embed images and videos and link between pages. Online safety	Skills showcase: HTML Editing the HTML and CSS of a web page to change the layout of a website and the text and images. Online safety	Programming 2: Computational thinking Plugged and unplugged activities to develop the four areas of computational thinking. Online safety	Data handling: Investigating weather Researching and storing data using spreadsheets; designing a weather station that gathers and records data; learning how weather forecasts are made and using green screen technology to present a weather forecast. Online safety
Year 5	Computing systems and networks: Search engines Using keywords and phrases, identifying inaccurate information, learning page rank works as well. Online safety	Programming 1: Music Applying programming skills to create sounds and melodies leading to a battle of the bands performance. Online safety	Data handling: Mars Rover 1 To data transfer and binary code. Online safety	Programming 2: Micro:bit Children to understand meaning and purpose of programming using micro:bits. Online safety	Creating media: Stop motion animation Storyboarding ideas, taking photographs and editing to create a video animation. Online safety	Skills showcase: Mars Rover 2 Develop 3D design skills. Online safety
Year 6	Computing systems and networks: Bletchley Park	Programming: Intro to Python	Data handling 1: Big Data 1	Creating media: History of computers	Data handling 2: Big Data 2	Skills showcase: Inventing a product



Year	Autumn		Spring		Summer	
group						
	Code breaking and password hacking	Using the programming language of Python	Identify how Barcodes, QR codes and RFID's are	Children write, record and edit radio plays set	Data usage and smart schools	Designing a product, pupils: evaluate, adapt
	Online safety	Online safety	used.	during WWII, look back in time at how computers have evolved		and debug code to make it suitable and efficient for their needs; use a
			Online safety	and design a computer of the future.	Online safety	software program to design their products; create their own
				Online safety		websites and video adverts to promote their inventions.
						Online safety