Computing Overview							
EYFS	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2	
Once a week	Use of the internet and E-	Use of the internet	Use of the internet	Use of the internet	Use of the internet	Use of the	
computing session	Safety	and E-Safety	and E-Safety	and E-Safety	and E-Safety	internet and E-	
in small group with					I-pads/computers	Safety	
support from Mrs	I-pads	I-pads	Design pictures using	Design pictures using			
Bhuvan			simple programmes	simple programmes	Use a range of	I-pads/computers	
	Design pictures using simple	Design pictures	Camera	Camera	simple		
Characteristics of	programmes	using simple			programmes	Use a range of	
effective learning:		programmes	I-pads/computers	I-pads/computers	independently.	simple	
Playing & Exploring	Access online books – home					programmes	
Active learning	learning	Access online books	Use a range of	Use a range of simple	Use 2Go &	independently.	
Creating & Thinking		- home learning	simple programmes	programmes	2Count. Use a	20 0	
			independently.	independently.	word processing	Use 2Go & 2Count. Use a	
			Use 2Go & 2Count.	Use 2Go & 2Count.	programme.	word processing	
			OSE 200 & 2Count.	OSE 200 & 2Count.	Education City	programme.	
			Education City	Education City	Access online	programme.	
			Ladeation city	Laucation City	books – home	Education City	
			Camera	Camera	learning	Access online	
				- Carrier Ca		books – home	
					Camera	learning	
						, and the second	
						Camera	
KS1	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2	
Cycle A	Online Safety	Online Safety	Online Safety	Online Safety	Online Safety	Online Safety	
(2222	Bee-Bots (Y1) – Programming	Digital Imagery (Y1)	Introduction to Data	Scratch Jr (Y2) –	Stop-Motion (Y2)	International	
(2022 – 2023		- Creating media	(Y1) – Data handling	Programming	- Creating media	Space Station (Y2)	
2024 - 2025	Recognise cause and effect	Diama mistarial	Daniel and and and	Forelana a many	Constant file by	Data handling	
2026 - 2027)	when pressing buttons on a	Plan a pictorial	Represent animal-	Explore a new	Create a flip book	December 1	
	Bee-Bot.	story using	themed data in	application	animation.	Describe and	
		photographic	different ways, using	independently.		explain how	
		images in sequence.				astronauts'	

Discuss and demonstrate how		objects and	Explain what the	Docomposo	survival needs are
	Foundation Is accorded Applica	_		Decompose a	
the Bee-Bot works.	Explain how to take	technology.	blocks on ScratchJr	story into smaller	met aboard the
	clear photos.		do and use them for	parts to plan a	ISS.
Record video ensuring		Log in and use	a purpose.	stop motion	
everyone is in the shot.	Take photos using a	mouse and keyboard		animation.	Identify and
-	device.	skills to navigate the	Recognise a loop in		digitally draw
Give a number of clear	Edit photos by	computer.	coding and why it is	Create stop	items which fulfil
instructions in sequence.	cropping, filtering		useful.	motion animations	basic human
	and resizing.	Represent the same		with small changes	needs when
Program a Bee-Bot to reach a		data as a pictogram	Use a code to create	between images.	aboard the ISS.
destination.	Search for and	and a table or chart.	an animation of an		
	import images from		animal moving.		Read the correct
Identify and correct mistakes	the internet.	Collect data about			temperature on a
in their programming.		minibeasts using a	Use code to		thermometer.
	Explain what to do	tally chart and	follow and create an		
	if something makes	represent their data	algorithm.		Design a display
	them	digitally.	Program code to run		showing
	uncomfortable		'on tap'.		everything that
	online.	Click and drag	•		needs to be
		objects to sort data	Explain the role of		monitored by
	Organise images on	using a branching	the blocks in a		sensors on the ISS.
	the page,	database.	program they have		
	orientating where		created.		Create an
	necessary.	Consider the types of			algorithm that
		input that would be			addresses all
		used to gather			plants' needs.
		different forms of			prants needed.
		data when designing			Explain how space
		an invention.			exploration can
		an invention.			benefit life on
					Earth.
					Laitii.
					Read data to
					identify whether a
					planet might be
					habitable

Cycle B	Online Safety	Online Safety	Online Safety	Online Safety	Online Safety	Online Safety
Сусіе в	Improving Mouse Skills (Y1)-	Algorithms	Rocket to the Moon	What is a computer?	Algorithms and	Word Processing
(2023 – 2024	Computing systems and	unplugged (Y1) -	(Y1)-Skills showcase	(Y2) – Computing	Debugging (Y2) –	(Y2) – Computing
2025 – 2026	networks	Programming	(11)-Skiiis silowcase	systems and	Programming	systems and
2027 – 2028)	networks	i rogrammig	Use a computer to	networks	i rogrammig	networks
2027 2020)	Use computers more	Explain what an	make a list	networks	Decompose a	networks
	purposefully	algorithm is.	Explain the benefits	Name some	game to predict	Explain which are
	Log in and navigate around a	angoriemin ioi	of making a list on	computer peripherals	the algorithms.	the home row
	computer	Write clear	the computer	and their function.	the digorithms.	keys and how to
		algorithms.	the computer		Give a definition	find them for
	Drag, drop, click and control a	Follow an	Use a basic range of	Recognise that	for	typing.
	cursor using a mouse	algorithm.	tools on graphics	buttons cause	'decomposition'.	•/ 8.
		. 0.	editing software to	effects.	,	Use the spacebar
	Use software tools to create	Explain what inputs	design a rocket		Write clear and	and backspace
	art on the computer	and outputs are.	J	Explain that	precise algorithms.	correctly.
	·	Create an	Sequence	technology follows	Create algorithms	
		achievable	instructions	instructions.	to solve problems.	Type and make
		program.	Follow instructions		·	simple alterations
			to build their model	Recognise different	Use loops in their	to text using
		Decompose a	rocket	forms of technology.	algorithms to	buttons on a word
		design into steps.			make their code	processor.
		Identify bugs in an	Input data about	Design an invention	more efficient.	
		algorithm and how	their rockets into a	which includes inputs		Search for, import
		to fix them.	table or spreadsheet	and outputs.	Explain what	and alter
					abstraction is.	appropriate
				Explain the role of		images for a text
				computers in the		document.
				world around them.		
						Modify text in a
						document.
						Use copy and
						paste to copy text
						from one
						document to
						another.

Autumn 1 Microsoft word PowerPoint	Autumn 2				online.
		Spring 1	Spring 2	Summer 1	Summer 2
Online safety: Year 4 What happens when I search online? How do companies encourage us to buy online? Fact,opinion or belief What is a bot? What is my #TechTimetable like?	Investigating weather What's the weather? – logging data Design a weather stations Design an automated machine Understand satellites and weather forecasts Presenting forecasts	Creating media: Website design Google Sites skills Book review web page Creating a web page Planning my website Creating my website	Collaborative learning Teamwork Sharing a document Slide presentations Google Forms Shared spreadsheets	Programming 2: Computational thinking What is computational thinking? Decomposition Abstraction and pattern recognition Algorithm design Applying computational thinking	Journey inside a computer Inputs and outputs Building a paper laptop Following instructions Computer memory Dismantling a tablet
Online safety: Year 3 Beliefs, opinions and facts on the internet When being online makes me upset	Networks and the internet Understand what a network is Understand a file's journey	Video trailers Planning a book trailer To take photos or videos to tell a story	Data handling: Comparison cards databased Understand records, fields and data	Programming scratch Explore a programming application Using loops	Further coding with scratch Recall key features of scratch reminder Identifying what
	online? How do companies encourage us to buy online? Fact,opinion or belief What is a bot? What is my #TechTimetable like? Online safety: Year 3 Beliefs, opinions and facts on the internet When being online makes me	online? How do companies encourage us to buy online? Fact,opinion or belief What is a bot? What is my #TechTimetable like? Understand satellites and weather forecasts Presenting forecasts Online safety: Year 3 Beliefs, opinions and facts on the internet When being online makes me upset Understand a file's journey	Online? How do companies encourage us to buy online? Fact, opinion or belief What is a bot? What is my #TechTimetable like? Design an automated machine Understand satellites and weather forecasts Presenting forecasts Presenting forecasts Presenting forecasts When being online makes me upset Design an automated machine Understand satellites and weather forecasts Presenting forecasts Networks and the internet Understand what a network is To take photos or videos to tell a story	Online? How do companies encourage us to buy online? Fact, opinion or belief What is a bot? What is my #TechTimetable like? Online safety: Year 3 Beliefs, opinions and facts on the internet When being online makes me upset Design a weather stations Design an automated machine Understand satellites and weather forecasts Presenting forecasts Networks and the internet Understand what a network is Data handling: Comparison cards databased Understand what a network is To take photos or videos to tell a story journey Sharing a document Slide presentations Shared spreadsheets Creating my website Video trailers Comparison cards databased Understand records, fields and data	Online? How do companies encourage us to buy online? Fact, opinion or belief What is a bot? What is my #TechTimetable like? Online safety: Year 3 Beliefs, opinions and facts on the internet When being online makes me upset Online safety: When being online makes me upset Oesign a weather stations Design an automated machine Creating a web page Planning my website Creating my website Oreating a web page Planning my website Creating my website Creating my website Creating my website Oreating my website Creating my website Creating my website Decomposition Abstraction and pattern recognition Algorithm design Applying computational thinking Applying computational thinking Comparison cards databased Understand what a network is Online safety: Year 3 Understand what a network is Online safety: Year 3 Understand records, fields and data

		Fundain a unabaitala	To leave to Edit the	C		
		Explain a website's	To learn to Edit the	Compare paper vs		
	Rules of social media	journey	trailer	computerised	Program an	Understand what
				databases	animation	a variable is
		Explore the role of	To add Transitions			
		routers	and text	To sort, filter and	Program a Story	Making a variable
				interpret data	Program a game	Use knowledge of
		Understanding	To evaluate video	To represent data in		variable to create
		packets	editing	different ways		a times tables
						project
				To sort data for a		
				purpose		
UKS2	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Cycle A	Online safety 1	Computing	Big Data 1	Big Data 2	Computer systems	Skills showcase-
		systems and			and networks	
(2022 – 2023	Discuss a range of issues online	networks	Understand why	Recognise that data	with history of	Inventing a
2024 – 2025	that can leave pupils feeling		barcodes and QR	can become	computers	product-
2026-2027)	sad, frightened, worried or	Searching basics	codes were created.	corrupted within a		chocolate bar
	uncomfortable and can			network and that	Explain that codes	video advert using
	describe numerous ways to get	Inaccurate	Create (and scan)	data sent in packets	can be used for a	CAD
	help.	information	their own QR code	is more robust, as	number of	
	·		using a QR code	well as identify the	different reasons	Online safety-
	Explain how sharing online can	Web quest	generator website.	need to update	and decode	transition recap
	have both positive and	1 1 1	0	devices and software.	messages.	before Year 6/7
	negative impacts.	Information poster	Explain how infrared			30.0.0
			can be used to	Recognise differences	Explain how to	
	Be aware of how to seek	Web crawlers	transmit a Boolean	between mobile data	ensure a password	
	consent from others before		type signal.	and WiFi and use a	is secure and how	
	sharing material online and can		7/12 2.0	spreadsheet to	this works.	
	describe how content can still		Explain how RFID	compare and identify		
	be shared online even if it is set		works, recall a use of	high-use data	Create a simple	
	to private.		RFID chips, and type	activities and low-use	poster with	
			formulas into	data activities.	information about	
	Explain what a 'digital		spreadsheets.	data delivities.	Bletchley Park	
	reputation' is and what it can		Spicadonecto.	Make links between	including the need	
	consist of.			the Internet of Things	to build electronic	
	COHSIST OF.			the internet of mings	to build electronic	

	Understand the importance of capturing evidence of online bullying and can demonstrate some of these methods on the devices used at school. Describe ways to manage passwords and strategies to add extra security such as two-factor authentication. Explain what to do if passwords are shared, lost, or stolen. Describe strategies to identify scams. Explain ways to increase their privacy settings and understand why it is important to keep their software updated.		Take real-time data and enter it effectively into a spreadsheet. Presenting the data collected as an answer to a question. Recognising the value of analysing real-time data. Analyse and evaluate transport data and consider how this provides a useful service to commuters.	and Big Data and give a basic example of how data analysis/analytics can lead to improvement in town planning. Explain ways that big Data or IoT principles could be used to solve a problem or improve efficiency within the school and prepare a presentation about their idea, considering the privacy of some data. Present their ideas about how Big Data/IoT can improve the school and provide feedback to others on their presentations	thinking machines to solve cipher codes. Explain the importance of historical figures and their contribution towards computer science. Present information about their historical figure in an interesting and engaging manner.	
Cycle B	Online safety	Research-	Programming1:	Data Handling: Mars	Creating Media:	Online safety-
(2023 – 2024	Understand that passwords	computing systems and	Music	Rover 1	Stop motion animation	transition recap before Year 6/7
2025 – 2026	need to be strong and that	networks: search	Iterate ideas, testing	Identify some of the		20.3.0 .00. 0,7
2027 – 2028)	apps require some form of	engines	and changing	types of data that the	Create a toy with	
	passwords.		throughout the	Mars Rover could	simple images	
		Explain what a	lesson.	collect (for example,	with a single	
	Recognise a couple of the	search engine is,		photos).	movement.	
	different types of online	suggesting several	Explain what the			
	communication and know who	search engines to	basic commands do:	Explain how the Mars Rover transmits the	Create a short stop motion with small	
	to go to if they need help with	use and explain		Rover transmits the	motion with small	

any communication matters	how to use them to	'play', 'slee'p,	data back to Earth	changes between
online.	find websites and	'2.times do'.	and the challenges	images.
	information.		involved in this.	
Search for simple information		Explain how their		Think of a simple
about a person, such as their	Suggest that things	program links to the	Read any number in	story idea for their
birthday or key life moments.	online aren't	theme. Include a	binary, up to eight	animation then
Know what bullying is and that	always true and	loop in their work.	bits.	decompose it into
it can occur both online and in	recognise what to	Correct their own		smaller parts to
the real world.	check for.	simple mistakes.	Identify input,	create a
			processing and	storyboard with
Recognise when health and	Explain why	Explain their scene in	output on the Mars	simple characters.
wellbeing are being affected in	keywords are	the story. Link	Rovers.	
either a positive or negative	important and	musical concepts to		Make small
way through online use.	what TASK stands	their scene.	Read binary numbers	changes to the
	for, using these		and grasp the	models to ensure a
Offer a couple of advice tips to	strategies to search	Include a live loop	concept of binary	smooth animation
combat the negative effects of	effectively.	and explain its	addition.	and delete
online use.		function. Use		unnecessary
	Recognise the	samples effectively	Relate binary signals	frames.
	terms 'copyright'	to enhance music.	(Boolean) to a simple	
	and 'fair use' and		character-based	Add effects such
	combine text and	Code a piece of	language, ASCII.	as extending parts
	images in a poster.	music that combines		and titles.
		a variety of		
	Make parallels	structures.		Provide helpful
	between book			feedback to other
	searching and	Use loops in their		groups about their
	internet searching,	programming.		animations
	explaining the role	December that		
	of web crawlers	Recognise that		
	and recognising that results are	programming music		
		is a way to apply their skills.		
	rated to decide	uieli SKIIIS.		
	rank.			