Year 1	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Reception	Computing systems	Programming 1	Computing systems	Programming 2	Data handling	Programming 2
	and networks 1	During this unit,	and networks 2	In this unit, children	In this unit, children	In this unit, children
	During this unit,	children will learn to	During this unit,	will learn about	will sort and	will refine their skills
	children will learn	receive and give	children will recognise	directions, experiment	categorise data and	to give directions and
	about the main parts	instructions and	a range of technology	with programming a	will be introduced to	continue to
	of a computer, use the	understand why it is	used in the home or at	Beebot and explore	branching databases	experiment with
	keyboard and the	important to give	school and will learn	different hardware.	and pictograms.	programming a
	mouse and logging in	precise instructions.	to operate a camera.		, -	Beebot and exploring
	and out.	•	,			different hardware.
Year 1 and 2	Computing Systems	Programming 1:	Skills Showcase	Computing Systems	Programming	Computing Systems
	and Networks:	Algorithms unplugged	Rocket to the Moon:	and Networks	Algorithms and	and Networks
	During this unit,	In this unit, children	During this unit,	What is a computer?	Debugging	Word Processing
	children will develop	will understand the	children will use	Through exploration,		During this unit,
	skills to log onto a	need for following	drawing software to	children will create a	In this unit, children	children will learn to
	computer and use and	instructions carefully	capture ideas. They	sequence of	will begin to	'touch type' and use
	improve mouse skills.	to achieve a specific	will create lists using	instructions for a	understand what an	simple keyboard
	They will learn to	outcome through	'word' software and	'Beebot' to make it	'algorithm' is. They	shortcuts to facilitate
	'drag and drop' and	practical 'unplugged'	will record simple data	move.	will write clear and	actions such as
	control a cursor to	learning – for	collected from	They will explore how	precise algorithms to	copying.
	help create digital	example, following	exploration using	they can change	achieve a specific	They will learn to
	'paintings'.	instructions to dress	computer tools or by	instructions to alter	outcome and create a	import images and
		up.	hand.	the direction of	simple loop of codes.	change font colour
		·		movement Beebot		and size.
				takes.		
On-line			On-line Safety lesson t	aught every half term.		
Safety			·	- ·		

Year 3 and 4	Computing systems and networks	Programming Programming: Scratch	Computing systems and networks 2	Creating Media Website design	Programming Further Coding with	Programming Computational
	Emailing		Video Trailer		Scratch	thinking
		In this unit, we will use	During this unit,	Children will gather		Children will begin to
	Children will begin this	more advanced loops	children will	research and images	In this unit, children	understand how
	unit by considering	to create repeated	understand what is	for a specific purpose.	will create a script for	computers can be
	what an email is. They	actions. The children	meant be a 'trailer'.	They will understand	an animation or game.	used to solve
	will learn how to send	will develop a story or	They will take video	how a simple website	They will understand	problems. They will
	emails and add	animation using	footage and	is formed and will add	what a variable is and	explore use of coding
	attachments. Children	coding blocks and one	understand how this	information to a	will create a sequence	software to draw a
	will learn about	or more images and	can be shared	webpage. Children will	of codes with a	square and at least
	ensuring that content	backdrops.	between devices.	learn to change the	variable. The children	one other shape. The
	sent via an email is		Children will then use	order, style and	will learn to 'debug'	children will consider
	responsible and		'editing' software to	positions of	codes when	use of decomposition
	respectful.		store, combine and	information on a	something does not	to work out what
			share their 'trailer'.	simple webpage.	work as expected.	coding might have
					·	been required to
						achieve a specific
						action.
On-line			On-line Safety lesson t	aught every half term.		
Safety						

Year 5 and 6	Programming	Data Handling	Skills Showcase	Computing systems	Creating Media	Skills Showcase
	Microbit	Mars Rover 1	Mars Rover 2	and networks	History of computers	Inventing a product
		Children will learn	In this unit, the	Bletchley Park	Children in this unit	
	In this unit, children	about computerised	children will have the	Within this unit,	will write, record and	During this unit, the
	will start to recognise	technologies such as	opportunity to further	children will know	present a short radio	children will
	that coding through	the Mars Rover and	explore binary and	what the significance	segment set in a	understand what
	blocks on screen can	will identify the sorts	begin to understand	of Bletchley Park is on	historical time period.	computer aided
	control an external	of data that the Mars	pixels. They will use	our own history. They	To start with, they will	design (CAD) software
	output, such as a	Rover would collect.	and understand the	will recognise the role	research how	can be used to create.
	Microbit. They will use	They will use and	term JPEG and Bitmap	that some of the	computers have	Through use of
	coding blocks to	understand the	to exchange data in	people had in	evolved over time.	different CAD
	create a sequence of	function of binary	image form. Children	Bletchley Park and will	They will then have	software, the children
	codes to make a	code for sharing and	will begin to	present information in	the chance to design a	will have the chance
	flashing animation on	sending data, before	understand the	a chosen format about	computer for the	to design a product for
	a Microbit.	adding numbers	purpose and use of 3D	some of these	future and justify the	the future and will
		together presented in	design tools.	historical figures.	choices they have	then develop an
		binary code.			made.	advert for the
						product.
On-line			On-line Safety lesson	taught every half term.		
Safety						

Year 2	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Reception	Computing systems	Programming 1	Computing systems	Programming 2	Data handling	Programming 2
·	and networks 1	During this unit,	and networks 2	In this unit, children	In this unit, children	In this unit, children
	During this unit,	children will learn to	During this unit,	will learn about	will sort and categorise	will refine their skills to
	children will learn	receive and give	children will recognise	directions, experiment	data and will be	give directions and
	about the main parts	instructions and	a range of technology	with programming a	introduced to	continue to
	of a computer, use the	understand why it is	used in the home or at	Beebot and explore	branching databases	experiment with
	keyboard and the	important to give	school and will learn to	different hardware.	and pictograms.	programming a Beebot
	mouse and logging in	precise instructions.	operate a camera.			and exploring different
	and out.					hardware.
Year 1 and	Computer systems	Creating Media	Data Handling	Programming	Creating Media	Data Handling
2	and networks	Digital Imagery	Introduction to Data	Scratch Jr	Stop Motion	International Space
	What is a computer?					Station
		During this unit, the	Children will have the	In this unit, we will	During this unit, the	
	In this unit, the	children will take and	chance to understand	begin to understand	children will learn to	Here, the children will
	children will explore	save photos, as well as	what data is and how	what coding 'blocks'	use storyboards to	gain an understanding
	what is meant by a	learning to gather	data can be helpful.	are. The children will	help plan for an	of what it is like for an
	computer input and	images from the	They will explore ways	carry out a cycle of	animation. They will	astronaut living in
	output. They will	internet. They will	of recording data by	'predict, test and	learn about 'stop	space. They will begin
	understand how	explore software to	humans and by	review' using inputted	motion' software	to understand what
	computers are used in	enhance or change	computers for a	codes.	before breaking down	the International Space
	the wider world and	photos using simple	specific purpose.	They will create an	larger parts of a story	Station and
	know some of the	editing techniques.		animation of an animal	into smaller steps to	understand how space
	computerised inputs			with sounds developed	assist in developing	exploration can benefit
	and outputs we use in			through use of Scratch	animation between	Earth.
	school.			Jr.	movements.	
On-line Safety			On-line Safety lesson t	aught every half term.		

Year 3 and	Computing systems	Data Handling	Computing systems	Computing systems	Data Handling	Skills Showcase
4	and networks	Comparison Cards and	and networks	and networks	Investigating the	HTML
	Networks and the	Databases	Journey Inside a	Collaborative Learning	Weather	 Know what HTML
	Internet	During this unit, we	Computer			code is.
		will learn and		In this unit, we will	Here, the children will	Explore how simple
	In this unit, the	understand what the	Within this unit, the	explore the creation of	understand what a	HTML code can be
	children will start to	term 'record, field and	children will consider	digital forms for asking	spreadsheet is and	changed to amend the
	understand what a	data,' mean in relation	parts of computer	questions or gathering	how data can be	colours, shapes and
	network is. They will	to data stored through	systems further. The	data. We will use 'track	added. They will create	positions of
	recognise how devices	a technology source.	children will	and change' tools on	and design a weather	information stored on
	can 'communicate'	The children will learn	understand what the	documents to suggest	station to gather data	a webpage.
	between other using	how technology can be	role is of different	amendments to	about weather, before	
	networks. The children	used to sort and filter	parts of a computer	someone else's work.	producing a short	
	then will explore 'real	information and data.	are through		weather forecast	
	life' networks used to		exploration and drama		video.	
	share information and		work.			
	data.					
On-line			On-line Safety lesson t	aught every half term.		
Safety						

Year 5 and	Programming	Creating Media	Computer systems	Data Handling	Data Handling	Programming
6	Programming Music	Stop Motion	and networks	Big Data 1	Big Data 2	Introduction to Python
		Animation	Search Engines			
	In this unit, the		During this half term,	In this unit, we will	During this unit, we	The children will
	children will have the	During this unit, we	children will	understand that data	will understand what is	understand that a
	chance to learn that	will take videos and	understand what a	can be carried in QR	meant WiFi and mobile	programming language
	computer	photos with different	search engine is and	codes, barcodes,	data. The children will	is available called
	programming	devices. The children	how information is	infrared, and RFID	compare data activities	Python. They will learn
	software, APPs and	will learn to upload	presented on a search	technologies (Radio	on different digital	how to build and use
	other facilities can be	and edit their own	engine. The children	Frequency	devices and compare	repeats when
	used to make and	images and videos	will use strategies to	Identification). The	to recognise which are	programming using
	record melodies. They	using cropping or	improve the validity of	children gather, store	high or low data use	Phyton language.
	will compare and	editing tools. They will	searches.	and present their own	tasks.	Finally, we will
	evaluate different	then learn to create a	We will compare	data, before creating		decompose coding
	melodies made using	video in which images	research and evaluate	QR codes so that their		from Python to explain
	digital technologies.	and video are	the accuracy of a	data sets can be		what processes might
		sequenced together	website. The children	accessed by other		have been carried out.
		for a specific purpose.	will learn that	people.		
			information presented			
			online is not always			
			true or accurate.			
On-line			On-line Safety lesson	aught every half term.		
Safety						