Year Group	Autumn		Spring		Summer	
	Autumn 1 Computing systems and networks	Autumn 2 Creating media	Spring 1 Programming A	Spring 2 Data and information	Summer 1 Creating media	Summer 2 Programming B
ONLINE SAFETY TOPICS	<i>Self-Image and Identity</i> Individual Liberty The Rule of Law	Online Relationships Online Reputation Individual Liberty The Rule of Law Democracy	Managing Information Online Individual Liberty The Rule of Law	Health, Well-being and Lifestyle Individual Liberty The Rule of Law	Privacy and Security Individual Liberty The Rule of Law	Copyright and Ownership Individual Liberty The Rule of Law
R	Devices in our world Children aware of technology/devices in their world and beginning to explore using them. Tolerance	<u>Festival Art</u> Using MiniMash to create a festival painting. Tolerance Mutual Respect	<u>Bee-bots</u> Children to explore moving toys.	<u>Farm Animals Data</u> Introduction to the use of a pictogram using Purple Mash.	<u>Super Space</u> Introduction to computational thinking and algorithms using Barefoot.	<u>Story Time</u> Using PurpleMash 2Create to create a simple story page.
1	<u>Technology around us</u> Recognising technology in school and using it responsibly. The Rule of Law	Digital painting Choosing appropriate tools in a program to create art and making comparisons with working non-digitally.	<u>Moving a robot</u> Writing short algorithms and programs for floor robots and predicting program outcomes.	<u>Grouping data</u> Exploring object labels, then using them to sort and group objects by properties.	Digital writing Using a computer to create and format text, before comparing to writing non-digitally. Individual Liberty	Programming animations Designing and programming the movement of a character on screen to tell stories.
2	Information technology around us Identifying IT and how its responsible use improves our world in school and beyond. The Rule of Law	Digital photography Capturing and changing digital photographs for different purposes The Rule of Law Mutual Respect	<u>Robot algorithms</u> Creating and debugging programs and using logical reasoning to make predictions.	<u>Pictograms</u> Collecting data in tally charts and using attributes to organise and present data on a computer.	<u>Making music</u> Using a computer as a tool to explore rhythms and melodies, before creating a musical composition.	Programming quizzes Designing algorithms and programs that use events to trigger sequences of code to make an interactive quiz
3	Connecting computers Identifying that digital devices have inputs, processes, and outputs, and how devices can be connected to make networks	Stop-frame animation Capturing and editing digital still images to produce a stop-frame animation that tells a story	Sequencing sounds Creating sequences in a block-based programming language to make music	<u>Branching databases</u> Building and using branching databases to group objects using yes/no questions.	Desktop publishing Creating documents by modifying text, images, and page layouts for a specified purpose Individual Liberty	Events and actions in programs Writing algorithms and programs that use a range of events to trigger sequences of actions.

Computing Curriculum Overview

4	The internet	Audio production	Repetition in shapes	Data logging	Photo editing	Repetition in games
	Recognising the internet	Capturing and editing	Using a text-based	Recognising how and why	Manipulating digital	Using a block-based
	as a network of networks	audio to produce a	programming language	data is collected over	images, and reflecting on	programming language
	including the WWW, and	podcast, ensuring that	to explore count-	time, before using data	the impact of changes	to explore count-
	why we should evaluate	copyright is considered.	controlled loops when	loggers to carry out an	and whether the required	controlled and infinite
	online content		drawing shapes	investigation.	purpose is fulfilled	loops when creating a
	Democracy				Individual Liberty	game.
5	Systems and searching	Video production	Selection in physical	Flat-file databases	Vector drawing	Selection in quizzes
	Recognising IT systems	Planning, capturing, and	<u>computing</u>	Using a database to order	Creating images in a	Exploring selection in
	around us and how they	editing video to produce a	Exploring conditions and	data and create charts to	drawing program by	programming to design
	allow us to search the	short film	selection using a	answer questions.	using layers and groups of	and code an interactive
	internet.	Individual Liberty	programmable		objects.	quiz.
	Democracy		microcontroller			
	The Rule of Law					
6	Communication and	Webpage creation	Variables in games	Introduction to	<u>3D modelling</u>	Sensing
	<u>collaboration</u>	Designing and creating	Exploring variables when	<u>spreadsheets</u>	Planning, developing, and	Designing and coding a
	Identifying and exploring	webpages, giving	designing and coding a	Answering questions by	evaluating 3D computer	project that captures
	how data is transferred	consideration to	game.	using spreadsheets to	models of physical	inputs from a physical
	and information is shared	copyright, aesthetics, and		organise and calculate	objects.	device.
	online.	navigation		data		
	Democracy	Individual Liberty				