Year 1 Computing								
	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2		
Lesson 1	Unplugged:	Digital Painting	Programming A –	Digital Writing	Programming B –	Programming B –		
	Acceptable Use Policy	Recap on mouse skills	Moving a robot	Exploring the	Programming	Programming		
	and Online Safety	How can we paint	Unplugged:	keyboard	Animations	Animations		
	Using computers	using computers?	Directions	Adding and removing	Exploring ScratchJr –	Project design		
	responsibly	Using shape and lines	Forwards and	text	Comparing tools	Design the parts of		
	Generate rules for	Use a mouse in	backwards	Use a computer to	Joining blocks	project		
	acceptable use of IT	different ways.	Four directions	write and add and	Choose a command			
	based on	Describe what	Explain what a given	remove text on a	for a given purpose			
	experiences.	different freehand	command will do and	computer.	and show that a			
	Understand how to	tools do and use the	combine forwards		series of commands			
	be safe online	shape and line tools.	and backwards and		can be joined			
			four direction		together.			
			commands to make					
			sequences.					
Lesson 2	Technology around	Digital Painting	Programming A –	Digital Writing	Programming B –	Programming B –		
	us	Making careful	Moving a robot	Exploring the toolbar	Programming	Programming		
	Unplugged:	choices	Beebots:	Making changes to	Animations	Animations		
	Technology in our	Painting all by myself	Buttons	text	Make a change	Follow my design		
	classroom	Comparing computer	Getting there	Discuss: pencil or	Adding Sprites	Use my algorithm		
	Using technology in	art and painting	Routes	keyboard?	Identify the effect of	create a program.		
	the wider world	Use a computer and	Plan a simple	Identify that the look	changing a value and			
	To identify	make careful choices	program and find	of text can be	explain that each			
	technology in school	when painting a	more than one	changed on a	sprite has its own			
	and the wider world	picture. Compare	solution to a problem	computer and make	instructions.			
		painting a picture on		careful choices when				
		a computer and on		changing a text.				
		paper.		Compare typing on a				
				computer to writing				
				on paper.				

			Year 2 Computing			
	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Lesson 1	Acceptable Use Policy	Information	Creating Media –	Creating Media –	Programming A –	Programming B –
	Online Safety	Technology Around	Digital Photography	Digital Music	Robot Algorithms	Programming
	Generate rules for	Us	Taking photographs	How music makes us	Giving instructions	Quizzes
	acceptable use of IT	IT in the world	Landscape or portrait	feel	Same but different	ScratchJr recap
	based on	The benefits of IT	What makes a good	Rhythms and	Making predictions	Outcomes
	experiences.	Identify IT beyond	photograph?	patterns	Describe a series of	Using a design
	Understand how to	school and explain	Use a digital device	How music can be	instructions as a	Changing a design
	be safe online	how IT helps us	and make choices	used	sequence. Explain	Explain that a
			when taking a	Say how music can	what happens when	sequence of
			photograph. Describe	make us feel. Identify	we change the order	commands has a
			what makes a good	that there are	of instructions. Use	start and outcome.
			photograph	patterns in music and	logical reasoning to	To create and chan
				experiment with	predict the outcome	a given design.
				sound using a	of a program.	
				computer.		
Lesson 2	Information	Information	Creating Media –	Creating Media –	Programming A –	Programming B –
	Technology Around	Technology Around	Digital Photography	Digital Music	Robot Algorithms	Programming
	Us	Us	Lighting	Notes and tempo	Mats and routes	Quizzes
	What is IT?	Using IT safely	Effects	Creating digital music	Algorithm design	Designing and
	IT in school	Using IT in different	Is it real?	Reviewing and	Break it down	creating a program
	Recognise the uses	ways	Decide how	editing music	Explain that	Evaluation
	and features of IT.	Explain how to use IT	photographs can be	Use a computer to	programming	Create a self-
	Identify the uses of IT	safely and recognise	improved, use tools	create a musical	projects can have	designed program
	in school	that choices are	to change an image	pattern. Create music	code and artwork.	and decide how the
		made when using IT,	and recognise that	for a purpose and	Design an algorithm	project can be
			photographs can be	review and refine	and create and debug	improved
			changed	computer work.	a self-written	
			Ŭ		program	

	Year 3							
	Autumn 1 Computing systems and networks – Connecting Computers	Autumn 2 Creating media – Stop-frame animation	Spring 1 Programming A – Sequencing sounds	Spring 2 Data and information – Branching databases	Summer 1 Creating media – Desktop publishing	Summer 2 Programming B – Events and actions in programs		
Lesson 1	How does a digital device work? Explain how digital devices function	Can a picture move? Explain that animation is a sequence of drawings or photographs	Introduction to Scratch Explore a new programming environment	Yes or no questions Create questions with yes/no answers	Words and pictures Recognise how text and images convey information	Moving a sprite Explain how a sprite moves in an existing project		
Lesson 2	What parts make up a digital device? Identify input and output devices	Frame by frame Relate animated movement with a sequence of images	Programming Sprites Identify that commands have an outcome	Making groups Identify the attributes needed to collect data about an object	Can you edit it? Recognise that text and layout can be edited	Maze movement Create a program to move a sprite in four directions		
Lesson 3	How do digital devices help us? Recognise how digital devices can change the way we work	What's the story? Plan an animation	Sequences Explain that a program has a start	Creating a branching database Create a branching database	Great template! Choose appropriate page settings	Drawing lines Adapt a program to a new context		
Lesson 4	How am I connected? Explain how a computer network can be used to share information	Picture perfect Identify the need to work consistently and carefully	Ordering commands Recognise that a sequence of commands can have an order	Structuring a branching database Explain why it is helpful for a database to be well structured	Can you add content? Add content to a desktop publishing publication	Adding features Develop a program by adding features		
Lesson 5	How are computers connected? Explore how digital devices can be connected	Evaluate and make it great! Review and improve an animation	Looking good Change the appearance of a project	Using a branching database Plan the structure of a branching database	Lay it out Consider how different layouts can suit different purposes	Debugging movement Identify and fix bugs in a program		
Lesson 6	What does our school network look like? Recognise the physical components of a network	Lights, camera, action! Evaluate the impact of adding other media to an animation	Making an instrument Create a project from a task description	Two ways of presenting information Independently create an identification tool	Why desktop publishing? Consider the benefits of desktop publishing	Making a project Design and create a maze-based challenge		

			Year 4			
	Autumn 1 Computing systems and networks – The Internet	Autumn 2 Creating media – Audio production	Spring 1 Programming A – Repetition in shapes	Spring 2 Data and information – Data logging	Summer 1 Creating media – Photo editing	Summer 2 Programming B – Repetition in games
Lesson 1	Connecting networks Describe how networks physically connect to other networks	Digital recording Identify that sound can be recorded	Programming a screen turtle Identify that accuracy in programming is important	Answering questions Explain that data gathered over time can be used to answer questions	Changing digital images Explain that the composition of digital images can be exchanged	Using loops to create shapes Develop the use of count-controlled loops in a different programming environment
Lesson 2	What is the internet made of? Recognise how networked devices make up the internet	Recording sounds Explain that audio recordings can be edited	Programming letters Create a program in a text-based language	Data collection Use a digital device to collect data automatically	Changing the composition of images Explain that colours can be changed in digital images	Different loops Explain that in programming there are infinite loops and count-controlled loops
Lesson 3	Sharing information Outline how websites can be shared via the World Wide Web	Creating a podcast Recognise the different parts of creating a podcast project	Patterns and repeats Explain what 'repeat' means	Logging Explain that a data logger collects 'data points' from sensors over time	Changing images for different uses Explain how cloning can be used in photo editing	Animate your name Develop a design that includes two or more loops which run at the same time
Lesson 4	What is a website? Describe how content can be added and accessed on the World Wide Web	Editing digital recordings Apply audio editing skills independently	Using loops to create shapes Modify a count- controlled loop to produce a given outcome	Analysing data Recognise how a computer can help us analyse data	Retouching images Explain that images can be combined	Modifying a game Modify an infinite loop in a given program
Lesson 5	Who owns the web? Recognise how the content of the World Wide Web is created by people	Combining audio Combine audio to enhance podcast project	Breaking things down Decompose a task into small steps	Data for answers Identify the data needed to answer questions	Fake images Combine images for a purpose	Designing a game Design a project that includes repetition
Lesson 6	Can I believe what I read? Evaluate the consequences of unreliable content	Evaluating podcasts Evaluate the effective use of audio	Creating a program Create a program that uses count-controlled loops to produce a given outcome	Answering my question Use data from sensors to answer questions	Making and evaluating a publication Evaluate how changes can improve an image	Creating our games Create a project that includes repetition

	Year 5							
	Autumn 1 Computing systems and networks – Systems and searching	Autumn 2 Creating media – Video production	Spring 1 Programming A – Selection in physical computing	Spring 2 Data and information – Flat-file databases	Summer 1 Creating media – Introduction to vector graphics	Summer 2 Programming B – Selection in quizzes		
Lesson 1	Systems Explain that computers can be connected together to form systems	What is video? Explain what makes video effective	Connecting Crumbles Control a simple circuit connected to a computer	Creating a paper-based database Use a form to record information	The drawing tools Identify that drawing tools can be used to produce different outcomes	Exploring conditions Explain how selection is used in computer programs		
Lesson 2	Computer systems and us Recognise the role of computer systems in our lives	Filming techniques Identify digital devices that can record video	Combining output components Write a program that includes count- controlled loops	Computer databases Compare paper and compute-based databases	Creating images Create a vector drawing by combining shapes	Selecting outcomes Relate that a conditional statement connects a condition to an outcome		
Lesson 3	Searching the web Experiment with search engines	Using a storyboard Capture video using a range of techniques	Controlling conditions Explain that a loop can stop when a condition is met	Using a database Outline how you can answer questions by grouping and then sorting data	Making effective drawings Use tools to achieve a desired effect	Asking questions Explain how selection directs the flow of a program		
Lesson 4	Selecting search results Describe how search engines select results	Planning a video Create a storyboard	Starting with selection Explain that a loop can be used to repeatedly check whether a condition has been met	Using search tools Explain that tools can be used to select specific data	Layers and objects Recognise that vector drawings consist of layers	Planning a quiz Design a program which uses selection		
Lesson 5	How search results are ranked Explain how search results are ranked	Importing and editing video Identify that video can be improved through reshooting and editing	Drawing designs Design a physical project that includes selection	Comparing data visually Explain that computer programs can be used to compare data visually	Manipulating objects Group objects to make them easier to work with	Testing a quiz Create a program which uses selection		
Lesson 6	How are searches influenced Recognise why the order of results is important, and to whom	Video evaluation Consider the impact of the choices made when making and sharing a video	Writing and testing algorithms Create a program that controls a physical computing project	Databases in real life Use a real-world database to answer questions	Create a vector drawing Apply knowledge about vector drawings	Evaluating a quiz Evaluate my program		

			Year 6			
	Autumn 1 Computing systems and networks – Communication and collaboration	Autumn 2 Creating media – Web page creation	Spring 1 Programming A – Variables in games	Spring 2 Data and information – Spreadsheets	Summer 1 Creating media – 3D Modelling	Summer 2 Programming B – Sensing movement
Lesson 1	Internet addresses Explain the importance of internet addresses	What makes a good website? Review an existing website and consider its structure	Introducing variables Define a 'variable' as something that is changeable	What is a spreadsheet? Create a data set in a spreadsheet	Introduction to 3D modelling Recognise that you can work in three dimensions on a computer	The micro:bit Create a program to rur on a controllable device
Lesson 2	Data packets Recognise how data is transferred across the internet	How would you layout your web page? Plan the features of a web page	Variables in programming Explain why a variable is used in a program	Modifying spreadsheets Build a data set in a spreadsheet	Modifying 3D objects Identify that digital 3D objects can be modified	Go with the flow Explain that selection can control the flow of a program
Lesson 3	Working together Explain how sharing information online can help people to work together	Copyright or CopyWRONG? Consider the ownership and use of images (copyright)	Improving a game Choose how to improve a game by using variables	What's the formula? Explain that formulas can be used to produce calculated data	Make your own name badge Recognise that objects can be combined in a 3D model	Sensing inputs Update a variable with a user input
Lesson 4	Shared working Evaluate different ways of working together online	How does it look? Recognise the need to preview pages	Designing a game Design a project that builds on a given example	Calculate and duplicate To apply formulas to data	Making a desk tidy Create a 3D model for a given purpose	Finding your way Use a conditional statement to compare variable to a value
Lesson 5	How we communicate Recognise how we communicate using technology	Follow the breadcrumbs Outline the need for a navigation path	Design to code Use my design to create a project	Event planning To create a spreadsheet to plan an event	Planning a 3D model Plan my own 3D model	Designing a step counter Design a project that uses inputs and outputs on a controllable device
Lesson 6	Communicating responsibly Evaluate different methods of online communication	Think before you link! Recognise the implications of linking to content owned by other people	Improving and sharing Evaluate my project	Presenting data To choose suitable ways to present data	Make your own 3D model Create my own digital 3D model	Making a step counter Develop a program to use inputs and outputs on a controllable device