



# St James & St John Church of England Primary School

## Weekly Progression Year 5 2025-2026

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7
<b>Autumn 1</b>	<b>Programming in Scratch</b> NC: Design, write and debug programs that accomplish specific goals; solve problems by decomposing them into smaller parts. Use sequence, selection, and repetition in programs; work with variables and various forms of input and output. Use logical reasoning to explain how some simple algorithms work and to detect and correct errors in algorithms and programs. aspiration, collaboration, resilience, courage						
	Program inputs for control, selection (conditions) and sensing for interaction for scoring and a game timer.	Program inputs for control, selection (conditions) and sensing for data variables for scoring and a game timer.	Program distance sensing and movement.	Program Inputs, outputs & loops.	Program conditions, sensing and variables.	Program list variables that chooses randomly	
<b>Autumn 2</b>	<b>App Design</b> NC: Select, use and combine a variety of software (including internet services) on a range of digital devices to design and create a range of programs, systems and content that accomplish given goals. aspiration, collaboration, resilience, courage				<b>Music Creation</b> NC: Select, use and combine a variety of software (including internet services) on a range of digital devices to design and create a range of programs, systems and content that accomplish given goals. <b>taught within Music Curriculum</b>		
	Adjust slide size to mimic a phone/ tablet size. Add text and images to a slide.	Add icons and text to use as navigation.	Duplicate slides to create multiple pages of the app.	Create hyperlinks to create navigation.	Layer tracks using sounds and effects.	Create effective instrument tracks.	Edit tracks and effectively adjust volume and add effects.
<b>Spring 1</b>	<b>Text-base programming</b> NC: Use sequence and repetition in programs; work with variables. Correct errors. aspiration, collaboration, resilience, courage				<b>E-safety</b> NC: Use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact. respect, kindness, aspiration, collaboration, courage		
	Change the variables of text-based commands. Write text-based commands accurately and use fill effects, stamps and functions	Write text-based commands to program digital art. Write text commands/functions to program keyboard inputs in a game.	Programming a Logo turtle to move and use pen. Use co-ordinates in with a Logo turtle. Print labels in Logo.	Program a loop (repetition) and shapes in Logo Turtle. Program colours in Logo turtle. Program variables in Logo turtle.	Keep personal information private. Respect and protect again online bullies. Understand the consequences of sharing photo/videos online.	Understand the term digital footprint. How can we check online content is trustworthy. How and where and who can we report concerns we have to. Understand the pitfalls of in-app purchases.	



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<b>Spring 2</b>	<b>Data Handling</b> <i>NC: Select, use and combine a variety of software (including internet services). Collecting, analysing, evaluating and presenting data and information.</i> collaboration, resilience, courage				<b>Physical Devices</b> <i>NC: Design, write and debug programs that accomplish specific goals, including controlling or simulating physical systems. Use sequence, selection, and repetition in programs; work with variables and various forms of input and output.</i> collaboration, resilience		
	Select and use non-adjacent cells plus resize multiple cell widths and copy/paste cells.	Use formulae to find totals, averages and maximum/minimum numbers.	Find data and create a spreadsheet to suit it.	Search a database for specific information.	Understand that computers use physical inputs and outputs and give examples. Program physical inputs, outputs (e.g program LED lights) and random variables.	Design, write and debug programs that accomplish specific goals, including controlling or simulating physical systems.	
<b>Summer 1</b>	<b>Programming with Sphero</b> <i>NC: Design, write and debug programs that accomplish specific goals, including controlling or simulating physical systems; solve problems by decomposing them into smaller parts. Use sequence, selection, and repetition in programs; work with variables and various forms of input and output. Use logical reasoning to explain how some simple algorithms work and to detect and correct errors in algorithms and programs.</i> respect, kindness, aspiration, collaboration,, resilience,					<b>Computer Networks and the Internet</b> <i>NC: Understand computer networks, including the internet; how they can provide multiple services, such as the World Wide Web, and the opportunities they offer for communication and collaboration. respect, kindness, , collaboration, friendship,</i>	
	Understanding Bluetooth Technology as Input Device Write programs for the Sphero using movement and repetition (loops).	Write programs for the Sphero using movement and repetition (loops).	Write a program to trace a maze/route with Sphero and De-bug.	Write a program with outputs.	Write a program with random variables	Understand Computer Networks, Internet and Cloud Computing and how they help us. Understand how and why we collaborate online (including blogging).	What is email and how can we use it safely? Understand how and why we collaborate online (including blogging).
<b>Summer 2</b>	<b>E-book Creation</b> <i>NC: Select, use and combine a variety of software (including internet services) on a range of digital devices to design and create a range of programs, systems and content that accomplish given goals.</i> aspiration, collaboration, resilience,					<b>Operating Systems</b> <i>NC: Select, use and combine a variety of software on a range of digital devices to create content that accomplish given goals.</i> collaboration, resilience,	
	Add page colour and style. Add, position and format text on different pages.	Add and position images.	Add audio, including hiding it behind an object.	Add hyperlinks to text and images.	Search for shapes. Lock and arrange shapes (extension task).	Understand the importance of an operating system and its key features. Demonstrate important operating system skills (organising files etc), on Windows Word	Understand the importance of an operating system and its key features. Demonstrate important operating system skills (organising files etc), on Windows Excel

January 2024 - Music creation unit taught within Music lessons. Overview adapted.