



# St Charles RC Primary School Computing Curriculum Map 2024-2025



Term	Nursery	Reception	Year 1	Year 2	Year 3 and 3/4	Year 4	Year 5	Year 6
<b>Autumn</b>	Children play with a range of battery operated and cause and effect toys.	<p>Children have the language skills to give simple single instructions</p> <p>Children use simple programmes on the IWB (eg busy things) with support</p>	<p><b>Safety Rules</b></p> <p><b>Computing systems and networks</b></p> <p>Learning how to login and navigate around a computer; developing mouse skills; learning how to drag, drop, click and control a cursor to create works of art</p> <p>Kapow-Improving mouse skills</p> <p><b>Online Safety</b></p> <p>ESafety</p> <p>Kapow-online safety</p>	<p><b>Safety Rules</b></p> <p><b>Computing systems and networks 1</b></p> <p>Exploring what a computer is by identifying how inputs and outputs work and how computers are used in the wider world.</p> <p>Kapow-What is a computer?</p> <p><b>Online Safety</b></p> <p>ESafety</p> <p>Kapow-online safety</p>	<p><b>Safety Rules</b></p> <p><b>Computing systems and networks 1</b></p> <p>Learning what a network is and how devices communicate and share information.</p> <p>Kapow-Networks</p> <p><b>Online Safety</b></p> <p>ESafety</p> <p>Kapow-online safety</p>	<p><b>Safety Rules</b></p> <p><b>Computing systems and networks</b></p> <p>Exploring a range of collaborative tools.</p> <p>Kapow-Collaborative learning</p> <p><b>Online Safety</b></p> <p>ESafety</p> <p>Kapow-online safety</p>	<p><b>Safety Rules</b></p> <p><b>Computing systems and networks</b></p> <p>Learning about how pagerank works and how to identify inaccurate information.</p> <p>Kapow-Search engines</p> <p><b>Online Safety</b></p> <p>ESafety</p> <p>Kapow-online safety</p>	<p><b>Safety Rules</b></p> <p><b>Computing systems and networks</b></p> <p>Discovering the history of Bletchley and learning about code breaking</p> <p>Kapow-Bletchley Park</p> <p><b>Online Safety</b></p> <p>ESafety</p> <p>Kapow-online safety</p>

<p><b>Spring</b></p>	<p>Children listen to instructions.</p> <p>Children can follow simple two step instructions.</p> <p>Children are able to use a simple paint programme on the IWB with support.</p>	<p>Children are able to follow simple process based instructions including those that involve Positional language</p> <p>Children are starting to understand that they can find information using computers.</p>	<p><b>Programming 1</b></p> <p>Identifying where algorithms, decomposition and debugging can be found in relatable, familiar contexts.</p> <p>Kapow-Algorithms unplugged</p> <p><b>Creating media</b></p> <p>Taking and editing photos, searching for and adding images to a project.</p> <p>Kapow-Digital imagery</p> <p><b>Online Safety</b></p> <p>ESafety</p> <p>Kapow-online safety</p>	<p><b>Programming 1</b></p> <p>Developing an understanding of; what algorithms are</p> <p>Kapow-Algorithms and debugging</p> <p><b>Data Handling</b></p> <p>Learning how data is collected, used and displayed</p> <p>Kapow-International Space Station</p>	<p><b>Computing systems and networks 3</b></p> <p>Understanding how a computer works</p> <p>Kapow-Journey inside a computer</p> <p><b>Creating media</b></p> <p>Developing digital video skills to create trailers, with special effects and transitions.</p> <p>Kapow-Video trailers</p>	<p><b>Programming 1</b></p> <p>Revisiting the key features of the programme Scratch and beginning to use 'variables' in code scripts.</p> <p>Kapow-Further coding with Scratch</p> <p><b>Data Handling</b></p> <p>Researching and storing data on spreadsheets</p> <p>Kapow- Investigating weather</p>	<p><b>Creating media</b></p> <p>Creating animations</p> <p>Kapow-Stop motion animation</p> <p><b>Programming</b></p> <p>Building-on programming and music skills to create different sounds</p> <p>Kapow-Programming music</p>	<p><b>Creating media</b></p> <p>Learning about how computers have evolved.</p> <p>Kapow-History of Computers</p> <p><b>Programming</b></p> <p>Using the programming language 'Python' to create designs and art_</p> <p>Kapow-intro to Python</p>
<p><b>Summer</b></p>	<p>Children are able to follow simple process based instructions including those that involve Positional language</p> <p>Children are able to take turns on the IWB with support.</p>	<p>Children have the language skills to give simple instructions</p> <p>Children use a mouse to create a picture on an art programme.</p>	<p><b>Programming 2</b></p> <p>Introducing programming through the use of a robot (Bee-Bot) and exploring its functions.</p> <p>Kapow-Bee-bot</p>	<p><b>Programming 2</b></p> <p>Exploring what 'blocks' do' by carrying out an informative cycle of predict &gt; test &gt; review.</p> <p>Kapow-ScratchJr</p>	<p><b>Programming</b></p> <p>Exploring the programme Scratch, following the predict &gt; test &gt; review cycle. Using 'loops' and programming an</p>	<p><b>Programming 2</b></p> <p>Solving problems effectively using the four areas of abstraction, algorithm design, decomposition and pattern recognition.</p>	<p><b>Data Handling</b></p> <p>Learning about the Mars Rover, exploring how and why it transfers</p>	<p><b>Data Handling</b></p> <p>Identifying how barcodes and QR codes work. Learning how infrared</p>

		Children use Ipad and other cameras to take pictures	Option 2 Virtual Beebot		animation, story and game.				
			Online Safety	Online Safety	Kapow-Programming: Scratch	Kapow-Computational thinking	data including instructions	waves are used while recognising the uses of RFID_	
			ESafety	ESafety	ESafety	ESafety	Kapow-Mars Rover 1	Kapow-Big data 1	
			Kapow-online safety	Kapow-online safety	Kapow-online safety	Kapow-online safety	ESafety	ESafety	ESafety
							Kapow-online safety	Kapow-online safety	Kapow-online safety