



CRST Primary Curriculum

Computing Long - Term Sequence			
Foundational knowledge: • Technology in everyday life • Online safety	Substantive Concepts: - Algorithms (step-by-step instructions) • Programming (Sequence, Selection, Repetition, and Variables) • Systems and Hardware (how computers and physical components work)		Disciplinary Knowledge: • Pattern Recognition (identifying trends, similarities, and reusable rules) • Decomposition (breaking down complex problems into smaller, manageable parts) • Pattern Recognition (identifying trends, similarities, and reusable rules) Abstraction (focusing on the essential details and filtering out the unnecessary) • Algorithmic Thinking (designing step-by-step, logical solutions to solve a problem)
	Autumn	Spring	Summer
	Exploring Technology Explore familiar technology and begin to understand that it can be used for different purposes.	Using Technology Safely Begin to understand simple rules for using screens and technology safely.	Using Technology Use familiar technology with increasing confidence and independence.
	Using Technology Purposefully Use familiar technology with increasing independence for different purposes.	Technology and Online Safety Use technology appropriately and develop an understanding of how to stay safe online.	Online Communication and Safety Know that the internet can be used to communicate and buy things. Understand that people may not be who they say they are and that online behaviour can affect others.
Year 1	Technology Around Us	Moving a Robot	Digital Writing

	Digital Painting	Grouping Data	Programming Algorithms
Year 2	Information Technology Around Us	Robot Algorithms	Digital Music
	Digital Photography	Pictograms	Programming Quizzes
Year 3	Connecting Computers	Sequencing Sounds	Desktop Publishing
	Stop – Frame Animation	Branching Databases	Events and Actions in Programs
Year 4	The Internet Audio Production	Repetition in Shapes Data Logging	Photo Editing Repetition in Games
<i>Internet and online safety underpins every strand of our computing curriculum.</i>			