

## 2024-25 COMPUTING OVERVIEW

EYFS	Computational Thinking	PROGRAMMING A	DATA AND INFORMATION	PROGRAMMING B
		All About Instructions Receive and give instructions and understand the importance of precise instructions	Introduction to Data Sort and categorise data	Programming Bee-Bots Learn about directions, experiment with programming a Bee-bot and tinker with hardware
YEAR 1	COMP SYSTEMS & NETWORKS	CREATING MEDIA	PROGRAMMING A	PROGRAMMING B
	Technology Around Us Recognising technology in school and using it responsibly.	Digital Painting Choosing appropriate tools in a program to create art, and making comparisons with working non-digitally.	Moving a Robot Writing short algorithms and programs for floor robots, and predicting program outcomes.	Programming Animations  Designing and programming the movement of a character on screen to tell stories.
YEAR 2	COMP SYSTEMS & NETWORKS	PROGRAMMING A	DATA AND INFORMATION	PROGRAMMING B
	IT Around Us Identifying IT and how its responsible use improves our world in school and beyond.	Robot Algorithms Creating and debugging programs, and using logical reasoning to make predictions.	Pictograms Collecting data in tally charts and using attributes to organise and present data on a computer.	Programming Quizzes  Designing algorithms and programs that use events to trigger sequences of code to make an interactive quiz.
YEAR 3	COMP SYSTEMS & NETWORKS	DATA AND INFORMATION	PROGRAMMING A	PROGRAMMING B
	Connecting Computers Identifying that digital devices have inputs, processes, and outputs, and how devices can be connected to make networks.	Branching Databases  Building and using branching databases to group objects using yes/no questions.	Sequencing Sounds Creating sequences in a block-based programming language to make music.	Events and Actions in Programs Writing algorithms and programs that use a range of events to trigger sequences of actions.
YEAR 4	COMP SYSTEMS & NETWORKS	CREATING MEDIA	PROGRAMMING A	PROGRAMMING B
	The Internet  Recognising the internet as a network of networks including the WWW, and why we should evaluate online content.	Audio Editing  Capturing and editing audio to produce a podcast, ensuring that copyright is considered.	Repetition in Shapes Using a text-based programming language to explore count-controlled loops when drawing shapes.	Repetition in Games Using a block-based programming language to explore count-controlled and infinite loops when creating a game.
YEAR 5	COMP SYSTEMS & NETWORKS	PROGRAMMING A	DATA AND INFORMATION	PROGRAMMING B
	Systems and Searching Recognising IT systems around us and how they allow us to search the internet.	Selection in Physical Computing Exploring conditions and selection using a programmable microcontroller.	Flot-file Databases Using a database to order data and create charts to answer questions.	Selection in Quizzes Exploring selection in programming to design and code an interactive quiz.
YEAR 6	COMP SYSTEMS & NETWORKS	DATA AND INFORMATION	PROGRAMMING A	PROGRAMMING B
	Communication Identifying and exploring how data is transferred and information is shared online.	Spreadsheets Answering questions by using spreadsheets to organise and calculate data.	Variables in Games Exploring variables when designing and coding a game.	Sensing Movement  Designing and coding a project that captures inputs from a physical device.

Additional: Desktop Publishing is taught as an I.T skill throughout KS1 and KS2 whereby children create documents, modify text, images and page layouts for a specified purpose.

Internet Safety is taught half-termly in every year group from EYFS through to Year 6 using 'Project Evolve – Education for a Connected World' framework.