

Computing Unit Summaries

Units are designed on a spiral curriculum, ensuring each of the themes allow pupils to consolidate and build on prior learning.

	Computing Systems and Networks	Creating Media	Data and Information	Programming A	Programming B
EYFS (Nursery and Reception)	What is Technology? Recognising what is, and is not, technology and using it responsibly.	Digital Mark Making Using technology to explore digital methods for mark making.	Grouping Data Exploring which groups have more and less, sorting objects using shared properties.	Physical Commands Using physical movement to follow basic commands, linking them to familiar sequenced actions.	Introduction to Algorithms Exploring and following the concept of commands to form basic sequences (algorithms).
Year 1	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. Digital Writing Using a computer to create and format text, before comparing to writing non-digitally.	Grouping Data Exploring object labels, then using them to sort and group objects by properties.	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	Information Technology Around Us Identifying IT and how its responsible use improves	Digital Photography Capturing and changing digital photographs for different purposes.	Pictograms Collecting data in tally charts and using attributes to organise and	Robot Algorithms Creating and debugging programs, and using logical reasoning to make predictions.	Programming Quizzes Designing algorithms and programs that use events to trigger sequences of

	our world in school and beyond.	<p>Making Music Using a computer as a tool to explore rhythms and melodies, before creating a musical composition.</p>	present data on a computer.		code to make an interactive quiz.
Year 3	<p>Connecting Computers Identifying that digital devices have inputs, processes and outputs, and how devices can be connected to make networks.</p>	<p>Stop-frame Animation Capturing and editing digital still images to produce a stop-frame animation that tells a story.</p> <p>Desktop Publishing Creating documents by modifying text, images and page layouts for a specified purpose.</p>	<p>Branching Databases Building and using branching databases to group objects using yes/no questions.</p>	<p>Sequencing Sounds Creating sequences in a block-based programming language to make music.</p>	<p>Events and Actions in Programs Writing algorithms and programs that use a range of events to trigger sequences of actions.</p>
Year 4	<p>The Internet Recognising the internet as a network of networks including the WWW and why we should evaluate online content.</p>	<p>Audio Production Capturing and editing audio to produce a podcast, ensuring that copyright is considered.</p> <p>Photo Editing Manipulating digital images and reflecting on the impact of changes and whether the required purpose is fulfilled.</p>	<p>Data Logging Recognising how and why data is collected over time, before using data loggers to carry out an investigation.</p>	<p>Repetition in Shapes Using a text-based programming language to explore count-controlled loops when drawing shapes.</p>	<p>Repetition in Games Using a block-based programming language to explore count-controlled and infinite loops when creating a game.</p>

<p>Year 5</p>	<p>Systems and Searching Recognising IT systems around us and how they allow us to search the internet.</p>	<p>Video Production Planning, capturing and editing video to produce a short film.</p> <p>Vector Drawing Creating images in a drawing program by using layers and groups of objects.</p>	<p>Flat-file Databases Using a database to order data and create charts to answer questions.</p>	<p>Selection in Physical Computing Exploring conditions and selection using a programmable microcontroller.</p>	<p>Selection in Quizzes Exploring selection in programming to design and code an interactive quiz.</p>
<p>Year 6</p>	<p>Communication and Collaboration Identifying and exploring how data is transferred and information is shared online.</p>	<p>Webpage Creation Designing and creating webpages, giving consideration to copyright, aesthetics and navigation.</p> <p>3D Modelling Planning, developing and evaluating 3D computer models of physical objects.</p>	<p>Introduction to Spreadsheets Answering questions by using spreadsheets to organise and calculate data.</p>	<p>Variables in Games Exploring variables when designing and coding a game.</p>	<p>Sensing Designing and coding a project that captures inputs from a physical device.</p>