

Year Group	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Nursery	Children to focus on following simple instructions and beginning to understand and follow 2 step instructions.					
Reception	<p style="text-align: center;">Computational Thinking - Children to follow multiple step instructions to complete a task. Children to solve problems and be able to discuss the necessary steps that need to be taken.</p>					
Year 1	<p>1.1 - Technology around us Recognising technology in school and using it responsibly.</p>	<p>1.2 - Digital painting Choosing appropriate tools in a program to create art, and making comparisons with working non-digitally</p>	<p>1.3 - Moving a robot Writing short algorithms and programs for floor robots, and predicting program outcomes.</p>	<p>1.4 - Grouping data Exploring object labels, then using them to sort and group objects by properties.</p>	<p>1.5 - Digital writing Using a computer to create and format text, before comparing to writing non-digitally</p>	<p>1.6 - Programming animations Designing and programming the movement of a character on screen to tell stories</p>
Year 2	<p>2.1 - Information technology around us Identifying IT and how its responsible use improves our world in school and beyond.</p>	<p>2.2 - Digital photography Capturing and changing digital photographs for different purposes.</p>	<p>2.3 - Robot algorithms Creating and debugging programs, and using logical reasoning to make predictions.</p>	<p>2.4 - Pictograms Collecting data in tally charts and using attributes to organise and present data on a computer.</p>	<p>2.5 - Digital music Using a computer as a tool to explore rhythms and melodies, before creating a musical composition.</p>	<p>2.6 - Programming quizzes Designing algorithms and programs that use events to trigger sequences of code to make an interactive quiz.</p>
Year 3	<p>3.1 - Connecting computers</p>	<p>3.2 - Stop-frame animation</p>	<p>3.3 - Sequencing sounds Creating sequences</p>	<p>3.4 - Branching databases Building and</p>	<p>3.5 - Desktop publishing Creating documents</p>	<p>3.6 - Events and actions in programs Writing algorithms</p>

Computing Long Term Plan

	Identifying that digital devices have inputs, processes, and outputs, and how devices can be connected to make networks.	Capturing and editing digital still images to produce a stop-frame animation that tells a story.	in a block-based programming language to make music.	using branching databases to group objects using yes/no questions.	by modifying text, images, and page layouts for a specified purpose.	and programs that use a range of events to trigger sequences of actions.
Year 4	4.1 - The internet Recognising the internet as a network of networks including the WWW, and why we should evaluate online content.	4.2 - Audio production Capturing and editing audio to produce a podcast, ensuring that copyright is considered.	4.3 - Repetition in shapes Using a text-based programming language to explore count-controlled loops when drawing shapes.	4.4 - Data logging Recognising how and why data is collected over time, before using data loggers to carry out an investigation.	4.5 - Photo editing Manipulating digital images, and reflecting on the impact of changes and whether the required purpose is fulfilled.	4.6 - Repetition in games Using a block-based programming language to explore count-controlled and infinite loops when creating a game
Year 5	5.1 - Systems and searching Recognising IT systems in the world and how some can enable searching on the internet	5.2 - Video production Planning, capturing, and editing video to produce a short film	5.3 - Selection in physical computing Exploring conditions and selection using a programmable microcontroller	5.4 - Flat-file databases Using a database to order data and create charts to answer questions.	5.5 - Introduction to vector graphics Creating images in a drawing program by using layers and groups of objects	5.6 - Selection in quizzes Exploring selection in programming to design and code an interactive quiz.
Year 6	6.1 - Communication and collaboration Exploring how data is transferred by working collaboratively online.	6.2 - Webpage creation Designing and creating webpages, giving consideration to copyright, aesthetics, and navigation.	6.3 - Variables in games Exploring variables when designing and coding a game.	6.4 - Introduction to spreadsheets Answering questions by using spreadsheets to organise and calculate data.	6.5 - 3D modelling Planning, developing, and evaluating 3D computer models of physical objects.	6.6 - Sensing movement Designing and coding a project that captures inputs from a physical device.