



## Whole School Computing Yearly Overview

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
<b>EYFS</b>	iPad introduction – unlocking the iPad and using the keyboard.		Media – Using an iPad to take photos and videos		Moving a robot – Introduction to Bee-Bot	
	<b>Computing Systems and Networks</b>	<b>Creating Media</b>	<b>Programming A</b>	<b>Data and Information</b>	<b>Creating Media</b>	<b>Programming B</b>
<b>Year 1</b>	<b>Technology around us</b> Recognising technology in school and using it responsibly <b>Paintz app</b>	<b>Digital painting</b> Choosing appropriate tools in a program to create art, and making comparisons with working non-digitally <b>Microsoft paint or similar</b>	<b>Moving a robot</b> Writing short algorithms and programs for floor robots, and predicting program outcomes. <b>Bee-Bot</b>	<b>Gathering data</b> Exploring object labels, then using them to sort and group objects by properties. <b>Google slides or PowerPoint</b>	<b>Digital writing</b> Using a computer to create and format text, before comparing to writing non-digitally. <b>Google Docs or Word</b>	<b>Programming animations.</b> Designing and programming the movement of a character on screen to tell stories. <b>ScratchJr</b>
<b>Year 2</b>	<b>Information technology around us.</b> Identifying IT and how its responsible use improves our world in school and beyond. <b>Google slides or PowerPoint</b>	<b>Digital photography</b> Capturing and changing digital photographs for different purposes. <b>Digital Camera</b>	<b>Robot algorithms</b> Creating and debugging programs, and using logical reasoning to make predictions. <b>Bee-Bot</b>	<b>Pictograms</b> Collecting data in tally charts and using attributes to organise and present data on a computer. <b>J2data Pictogram</b>	<b>Digital music</b> Using a computer as a tool to explore rhythms and melodies, before creating a musical composition. <b>Chrome Music Lab</b>	<b>Programming quizzes</b> Designing algorithms and programs that use events to trigger sequences of code to make an interactive quiz. <b>ScratchJr</b>
<b>Year 3</b>	<b>Connecting computers</b> Identifying that digital devices have inputs, processes, and outputs, and how devices can be connected to make networks <b>Painting Program - any</b>	<b>Stop-frame animation</b> Capturing and editing digital still images to produce a stop-frame animation that tells a story <b>iMotion - App</b>	<b>Sequencing sounds</b> Creating sequences in a block-based programming language to make music <b>Scratch</b>	<b>Branching databases</b> Building and using branching databases to group objects using yes/no questions. <b>J2data Branch and Pictogram</b>	<b>Desktop publishing</b> Creating documents by modifying text, images, and page layouts for a specified purpose. <b>Canva.com</b>	<b>Events and actions in programs</b> Writing algorithms and programs that use a range of events to trigger sequences of actions. <b>Scratch</b>
<b>Year 4</b>	<b>The internet</b> Recognising the internet as a network of networks including the	<b>Audio production</b> Capturing and editing audio to produce a	<b>Repetition in shapes</b> Using a text-based programming language to explore count-	<b>Data logging</b> Recognising how and why data is collected over time, before using	<b>Photo editing</b> Manipulating digital images, and reflecting on the impact of	<b>Repetition in games</b> Using a block-based programming language to explore count-



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	WWW, and why we should evaluate online content <b>Various Website</b>	podcast, ensuring that copyright is considered. <b>Audacity</b>	controlled loops when drawing shapes <b>FMSLogo</b>	data loggers to carry out an investigation. Data logger and <b>associated software</b>	changes and whether the required purpose is fulfilled. <b>Paint.NET or Microsoft Windows</b>	controlled and infinite loops when creating a game. <b>Scratch</b>
<b>Year 5</b>	<b>Systems and searching</b> Recognising IT systems in the world and how some can enable searching on the internet <b>Google slides</b>	<b>Video production</b> Planning, capturing, and editing video to produce a short film. <b>Microsoft Photos</b>	<b>Selection in physical computing</b> Exploring conditions and selection using a programmable microcontroller. <b>Crumble controller + starter kit + motor</b>	<b>Flat-file databases</b> Using a database to order data and create charts to answer questions. <b>J2data Database</b>	<b>Introduction to vector graphics</b> Creating images in a drawing program by using layers and groups of objects <b>Google drawings</b>	<b>Selection in quizzes</b> Exploring selection in programming to design and code an interactive quiz <b>Scratch</b>
<b>Year 6</b>	<b>Communication and collaboration</b> Exploring how data is transferred by working collaboratively online. <b>Google Slides</b>	<b>Webpage creation</b> Designing and creating webpages, giving consideration to copyright, aesthetics, and navigation <b>Google Slides</b>	<b>Variables in games</b> Exploring variables when designing and coding a game. <b>Scratch</b>	<b>Introduction to spreadsheets</b> Answering questions by using spreadsheets to organise and calculate data <b>Google Sheets or Excel</b>	<b>3D modelling</b> Planning, developing, and evaluating 3D computer models of physical objects. <b>Tinkercad</b>	<b>Sensing movement</b> Designing and coding a project that captures inputs from a physical device. <b>Micro:bit and Microsoft MakeCode</b>