

## Teach Computing Curriculum

	Computing systems and networks	Creating media	Programming A	Data and information	Creating media	Programming B
	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Year 1		<b>Technology around us</b> Recognising technology in school and using it responsibly.	<b>Digital painting</b> Choosing appropriate tools in a program to create art, and making comparisons with working non-digitally	<b>Moving a robot</b> Writing short algorithms and programs for floor robots, and predicting program outcomes.	<b>Digital writing</b> Using a computer to create and format text, before comparing to writing non-digitally	<b>Programming animations</b> Designing and programming the movement of a character on screen to tell stories.
resources						
Year 2	<b>Information technology around us</b> Identifying IT and how its responsible use improves our world in school and beyond.	<b>Digital photography</b> Capturing and changing digital photographs for different purposes.	<b>Robot algorithms</b> Creating and debugging programs, and using logical reasoning to make predictions.	<b>Pictograms</b> Collecting data in tally charts and using attributes to organise and present data on a computer.	<b>Digital music</b> Using a computer as a tool to explore rhythms and melodies, before creating a musical composition.	<b>Programming quizzes</b> Designing algorithms and programs that use events to trigger sequences of code to make an interactive quiz.
resources			Beebot	J2 Data	Chrome music lab	Scratch Jr

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Year 3	<p><b>Connecting computers</b> identifying that digital devices have inputs, processes, and outputs, and how devices can be connected to make networks.</p>	<p><b>Stop-frame animation</b> Capturing and editing digital still images to produce a stop-frame animation that tells a story</p>	<p><b>Sequencing sounds</b> Creating sequences in a block-based programming language to make music.</p>	<p><b>(Branching) databases</b> Building and using branching databases to group objects using yes/no questions.</p>	<p><b>Desktop publishing</b> Creating documents by modifying text, images, and page layouts for a specified purpose.</p>	<p><b>Events and actions in programs</b> Writing algorithms and programs that use a range of events to trigger sequences of actions.</p>
resources	Paint	imotion	Scratch	J2 data pictogram	Canva.com	Scratch
Year 4	<p><b>The internet</b> Recognising the internet as a network of networks including the WWW, and why we should evaluate online content.</p>	<p><b>Audio production</b> Capturing and editing audio to produce a podcast, ensuring that copyright is considered.</p>	<p><b>Repetition in shapes</b> Using a text-based programming language to explore count-controlled loops when drawing shapes.</p>	<p><b>Data logging</b> Recognising how and why data is collected over time, before using data loggers to carry out an investigation.</p>	<p><b>Photo editing</b> Manipulating digital images, and reflecting on the impact of changes and whether the required purpose is fulfilled.</p>	<p><b>Repetition in games</b> Using a block-based programming language to explore count-controlled and infinite loops when creating a game.</p>
resources	websites	Audacity	FMS Logo	Apps	Paint.net	Scratch Python

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Year 5	<b>Systems and searching</b> Recognising IT systems in the world and how some can enable searching on the internet.	<b>Video production</b> Planning, capturing, and editing video to produce a short film.	<b>Selection in physical computing</b> Exploring conditions and selection using a programmable microcontroller.	<b>Flat-file databases</b> Using a database to order data and create charts to answer questions.	<b>introduction to vector graphics</b> Creating images in a drawing program by using layers and groups of objects.	<b>Selection in quizzes</b> Exploring selection in programming to design and code an interactive quiz.
resources		Microsoft photos	Crumble	J2 data base	Publisher Word Paint	Scratch Python
Year 6	<b>Communication and collaboration</b> Exploring how data is transferred by working collaboratively online.	<b>Webpage creation</b> Designing and creating webpages, giving consideration to copyright, aesthetics, and navigation.	<b>Variables in games</b> Exploring variables when designing and coding a game.	<b>Introduction to spreadsheets</b> Answering questions by using spreadsheets to organise and calculate data.	<b>3D modelling</b> Planning, developing, and evaluating 3D computer models of physical objects.	<b>Sensing movement</b> Designing and coding a project that captures inputs from a physical device.
resources		Google sites	Scratch	Xcel	Tinkercad	Microbit Microsoft Make code
Kodu – manipulating digital images Publisher collages Animated stories – scratch python						