



Computing Curriculum Overview



Computing	Autumn	Spring	Summer
Nursery	<p><i>Computer systems</i> <i>Using a computer</i></p> <p>Children should have opportunities to explore and use a range of digital technology.</p>	<p><i>Computer systems two</i> <i>Exploring networks</i></p> <p>Children should have opportunities to explore and use a range of digital technology.</p>	<p><i>Introduction to coding</i> <i>Bee bots</i></p> <p>Children should be able to select and use technology for particular purposes. Children should have opportunities to explore and use a range of digital technology.</p>
Reception	<p><i>Computer systems</i> <i>Using a computer</i></p> <p>Children should have opportunities to explore and use a range of digital technology.</p>	<p><i>Data handling</i> <i>Introduction to Data</i></p> <p>Children should have opportunities to explore and use a range of digital technology. Children should be able to select and use technology for particular purposes.</p>	<p><i>Programming</i> <i>All about coding</i></p> <p>Children should be able to select and use technology for particular purposes. Children should be able to select and use technology for particular purposes.</p>
Year 1	<p><i>Improve mouse skills</i></p> <p>Children should be able to select and use technology for particular purposes.</p>	<p><i>Digital imagery</i></p> <p>Use technology purposefully to create, organise, store, manipulate and retrieve digital content.</p>	<p><i>Bee bots</i> <i>Virtual bee bots</i></p> <p>Understand what algorithms are; how they are implemented as programs on digital devices; and that programs execute by following precise and unambiguous instructions. Virtual bee bots Create and debug simple programs.</p>
Year 2	<p><i>Computer systems</i> <i>What is actually is a computer</i></p> <p>Recognise common uses of information technology beyond school."</p>	<p><i>Identify safe information</i> <i>Online safety unity</i></p> <p>Use technology safely and respectfully, keeping personal information private; identify where to go for help and support when they have concerns about content or contact on</p>	<p><i>Scratch Jr</i> <i>Create an animation</i></p> <p>Create and debug simple programs. Use technology purposefully to create, organise, store, manipulate and retrieve digital content.</p>



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		the internet or other online technologies. Use technology safely and respectfully, keeping personal information private; identify where to go for help and support when they have concerns about content or contact on the internet or other online technologies.	
Year 3	<p>Networks What is a network</p> <p>Understand computer networks including the internet; how they can provide multiple services, such as the World Wide Web; and the opportunities they offer for communication and collaboration.</p>	<p>Video trailers Craft and edit a video trailer.</p> <p>Use search technologies effectively, appreciate how results are selected and ranked, and be discerning in evaluating digital content.</p> <p>Select, use, and combine a variety of software (including internet services) on a range of digital devices to design and create a range of programs, systems and content that accomplish given goals.</p>	<p>Journey inside a computer Explore components of a computer</p> <p>Understand and use electrical systems in their products (for example, series circuits incorporating switches, bulbs, buzzers and motors).</p>
Year 4	<p>Collaborative learning How do connect work with computers</p> <p>Understand computer networks including the internet; how they can provide multiple services, such as the World Wide Web; and the opportunities they offer for communication and collaboration.</p>	<p>Investigating weather Use computing to collect and present data creatively.</p> <p>Select, use, and combine a variety of software (including internet services) on a range of digital devices to design and create a range of programs, systems and content that accomplish given goals, including collecting, analysing, evaluating and presenting data and information.</p>	<p>Further coding with Scratch Advanced block coding</p> <p>Design, write and debug programs that accomplish specific goals, including controlling or simulating physical systems; solve problems by decomposing them into smaller parts.</p> <p>Use sequence, selection, and repetition in programs; work with variables and various forms of input and output.</p>
Year 5	<p>Search engines How to accurately use a search engine</p> <p>Use search technologies effectively, appreciate how results are selected and ranked, and be discerning in evaluating digital content.</p>	<p>Mars Rover Use Binary code</p> <p>Understand how numbers can be represented in binary, and be able to carry out simple operations such as binary addition.</p>	<p>Programming music Programme music for a specific purpose.</p> <p>Design, write and debug programs that accomplish specific goals, including controlling or simulating physical systems; solve problems by decomposing them into smaller parts.</p> <p>Select, use, and combine a variety of</p>



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Year 6	<p>Computing through time Bletchley park</p> <p>Understand the history of computing and its impact on the world</p>	<p>Big data How data is transported via barcodes and QR codes</p> <p>Select, use, and combine a variety of software (including internet services) on a range of digital devices to design and create a range of programs, systems and content that accomplish given goals, including collecting, analysing, evaluating and presenting data and information.</p> <p>Understand computer networks including the internet; how they can provide multiple services, such as the World Wide Web; and the opportunities they offer for communication and collaboration.</p>	<p>Introduction to python</p> <p>Design, write and debug programs that accomplish specific goals, including controlling or simulating physical systems; solve problems by decomposing them into smaller parts.</p>

Digital literacy, Information Technology, Computer Science.