



## Computing Curriculum Map

### EYFS

**The most relevant statements for computing are taken from the following areas of learning:**

- Personal, Social and Emotional Development
- Physical Development
- Understanding the World
- Expressive Arts and Design

**By the end of Nursery, we expect children to be able to:**

- Remember rules without needing an adult to remind them
- Match their developing physical skills to tasks and activities in the setting
- Explore how things work

**By the end of Reception, we expect children to be able to:**

- Show resilience and perseverance in the face of a challenge
- Know and talk about the different factors that support their overall health and wellbeing: sensible amounts of 'screen time'
- Develop their small motor skills so that they can use a range of tools competently, safely, and confidently
- Explore, use and refine a variety of artistic effects to express their ideas and feelings.
- Be confident to try new activities and show independence, resilience, and perseverance in the face of challenge
- Explain the reasons for rules, know right from wrong and try to behave accordingly
- Safely use and explore a variety of materials, tools, and techniques, experimenting with colour, design, texture, form and function

Year 1	Autumn		Spring		Summer	
	<u>E-Safety</u>	<u>Digital Sound</u>	<u>Text and images</u>	<u>Programming</u>	<u>Digital Art</u>	<u>Mouse and Keyboard Skills</u>
	Understand where to go for help and support when they have concerns about content or contact on the internet or other online technologies.	To use technology purposefully to create digital content.	Recognise common uses of information technology.	Predict the behaviour of simple programs. Understand what algorithms are and how they implemented on digital devices.	To use technology purposefully to create digital content.	Recognise common uses of information technology.
Supporting Resources	<a href="https://projectevolve.co.uk/toolkit/resources/years/year-one/">https://projectevolve.co.uk/toolkit/resources/years/year-one/</a>  <a href="https://www.ilearn2.co.uk/e-safety---key-stage-1.html/">https://www.ilearn2.co.uk/e-safety---key-stage-1.html/</a>	<a href="https://www.ilearn2.co.uk/year1musiccreation.html/">https://www.ilearn2.co.uk/year1musiccreation.html/</a>	<a href="https://www.ilearn2.co.uk/year-1-text-images.html/">https://www.ilearn2.co.uk/year-1-text-images.html/</a>	<a href="https://www.ilearn2.co.uk/year-1-programming.html/">https://www.ilearn2.co.uk/year-1-programming.html/</a>	<a href="https://www.ilearn2.co.uk/year33designteacher.html/">https://www.ilearn2.co.uk/year33designteacher.html/</a>	<a href="https://www.ilearn2.co.uk/year1.html/">https://www.ilearn2.co.uk/year1.html/</a>

Year 2	Autumn		Summer		Spring	
	<u>E-Safety</u>	<u>Digital Art</u>	<u>Developing Programming</u>	<u>Internet Research</u>	<u>Programming with Scratch Jr</u>	<u>Text and Images</u>
	Use technology safely and keep personal information private.	Use technology purposefully to create, organise, store, manipulate and retrieve digital content.	Use logical reasoning to predict the behaviour of simple programs. Create and debug simple programs. Debug simple programs by using logical reasoning to predict the actions instructed by the code.	Recognise common uses of information technology beyond school.	Understand that programs execute by following precise and unambiguous instructions.	Use technology purposefully to create digital content, comparing the benefits of different programs.
Supporting Resources	<a href="https://projectevolve.co.uk/toolkit/resources/years/year-two/">https://projectevolve.co.uk/toolkit/resources/years/year-two/</a>  <a href="https://www.ilearn2.co.uk/e-safety---key-stage-1.html/">https://www.ilearn2.co.uk/e-safety---key-stage-1.html/</a>	<a href="https://www.ilearn2.co.uk/year-2-animation.html/">https://www.ilearn2.co.uk/year-2-animation.html/</a>	<a href="https://www.ilearn2.co.uk/year-2-programming.html/">https://www.ilearn2.co.uk/year-2-programming.html/</a>	<a href="https://www.ilearn2.co.uk/year-2-research.html/">https://www.ilearn2.co.uk/year-2-research.html/</a>	<a href="https://www.ilearn2.co.uk/year-2-scratch-jr.html/">https://www.ilearn2.co.uk/year-2-scratch-jr.html/</a>	<a href="https://www.ilearn2.co.uk/ebook-creationks1.html/">https://www.ilearn2.co.uk/ebook-creationks1.html/</a>

Year 3	Autumn		Spring		Summer	
	<u>E-Safety</u>	<u>Text and Images</u>	<u>Text Editing</u>	<u>Infographics</u>	<u>Digital Art</u>	<u>Programming in Kodu</u>
	<p>Understand that computer network enables the sharing of data and information.</p> <p>Use technology safely and respectfully keeping personal information private.</p> <p>Use technology safely and recognise acceptable and unacceptable behaviour.</p> <p>Understand that the internet is a large network of computers, and that information can be shared between computers.</p>	<p>Recognise an input and output device and how they are used.</p> <p>Make efficient use of familiar forms of input and output devices.</p>	<p>Use simple search technologies and recognise that some sources are more reliable than others.</p>	<p>With support select and use a variety of software to accomplish goals.</p>	<p>With support select and use a variety of software to accomplish goals.</p>	<p>Design, write and debug programmes that control or simulate virtual events.</p> <p>Use logical reasoning to explain how some simple algorithms work.</p>
Supporting Resources	<p><a href="https://projectevolve.co.uk/toolkit/resources/year3/year-three/">https://projectevolve.co.uk/toolkit/resources/year3/year-three/</a></p> <p><a href="https://www.ilearn2.co.uk/e-safety---key-stage-2.html/">https://www.ilearn2.co.uk/e-safety---key-stage-2.html/</a></p>	<p><a href="https://www.ilearn2.co.uk/comiccreationteacher.html/">https://www.ilearn2.co.uk/comiccreationteacher.html/</a></p>	<p><a href="https://www.ilearn2.co.uk/year3storyboards/">https://www.ilearn2.co.uk/year3storyboards/</a></p>	<p><a href="https://www.ilearn2.co.uk/year3infographics.html/">https://www.ilearn2.co.uk/year3infographics.html/</a></p>	<p><a href="https://www.ilearn2.co.uk/year3digitalart/signteacher.html/">https://www.ilearn2.co.uk/year3digitalart/signteacher.html/</a></p>	<p><a href="https://www.ilearn2.co.uk/year-3-kodu.html/">https://www.ilearn2.co.uk/year-3-kodu.html/</a></p>

Year 4	Autumn		Spring		Summer	
	<u>E-Safety</u>	<u>Internet Research</u>	<u>Programming with Scratch</u>	<u>Inside a computer</u>	<u>Digital Art</u>	<u>Animation</u>
	Use technology responsibly and understand that communication online may be seen by others. Understand where to go for help and support when they have concerns about content or contact on the internet or other online technologies.	Understand how results are selected and rank by search engines. Use filters in search technologies effectively. Use filters in search technologies effectively and appreciate how results and selected and ranked.	Decompose programmes into smaller parts. Use logical reasoning to detect and correct errors in algorithms and programs.	Understand what important parts of inside a computer or mobile device do to help with the performance (CPU, Fan, Hard Drive, RAM, Graphics Card). Understand that memory is measured in bytes and gigabytes. Use search filters on websites to find suitable information.	With support, select, use and combine a variety of software on a range of digital devices to accomplish given goals. Select, use, and combine a variety of software, systems and content that accomplish given goals.	With support, select, use and combine a variety of software on a range of digital devices to accomplish given goals. Select, use, and combine a variety of software, systems and content that accomplish given goals.
Supporting Resources	<a href="https://projectevolve.co.uk/toolkit/resources/years/4/">https://projectevolve.co.uk/toolkit/resources/years/4/</a> <a href="https://www.ilearn2.co.uk/e-safety---key-stage-2.html/">https://www.ilearn2.co.uk/e-safety---key-stage-2.html/</a>	<a href="https://www.ilearn2.co.uk/year-4-research.html/">https://www.ilearn2.co.uk/year-4-research.html/</a>	<a href="https://www.ilearn2.co.uk/y4scratch.html/">https://www.ilearn2.co.uk/y4scratch.html/</a>	<a href="https://www.ilearn2.co.uk/year-4-inside-a-computer/">https://www.ilearn2.co.uk/year-4-inside-a-computer/</a>	<a href="https://www.ilearn2.co.uk/year-4-graphic-design/">https://www.ilearn2.co.uk/year-4-graphic-design/</a>	<a href="https://www.ilearn2.co.uk/year-4-animation.html/">https://www.ilearn2.co.uk/year-4-animation.html/</a>

Year 5	Autumn		Spring		Summer	
	<u>E-Safety</u>	<u>Programming with Scratch</u>	<u>Computer Networks</u>	<u>Digital Sound</u>	<u>Programming Robots</u>	<u>Text-based programming</u>
	Understand the need to only select age-appropriate content.	Design, input and test an increasingly complex set of instructions to a program or device. Design, write and test simple programs with opportunities for selection where a particular result will happen based on actions or situations controlled by the user.	Understand what servers and how they provide services to a network. Begin to use internet services to share and transfer data to a third party.	Independently select, use, and combine a variety of software to design and create content for a given audience.	Design, write and debug programs that accomplish specific goals including controlling or simulating physical systems. Design, write and test simple programs that follow a sequence of instructions or allow a set of instructions to be repeated. Use other input devices such as cameras or sensors.	Use sequence and repetition in programs, work with variables. Correct errors in programs.
Supporting Resources	<a href="https://projectevolve.co.uk/toolkit/resources/years/5/">https://projectevolve.co.uk/toolkit/resources/years/5/</a>  <a href="https://www.ilearn2.co.uk/e-safety---key-stage-2.html/">https://www.ilearn2.co.uk/e-safety---key-stage-2.html/</a>	<a href="https://www.ilearn2.co.uk/y5scratch.html/">https://www.ilearn2.co.uk/y5scratch.html/</a>	<a href="https://www.ilearn2.co.uk/year-5-computer-networks.html/">https://www.ilearn2.co.uk/year-5-computer-networks.html/</a>	<a href="https://www.ilearn2.co.uk/year-5-music-creation.html/">https://www.ilearn2.co.uk/year-5-music-creation.html/</a>	<a href="https://www.ilearn2.co.uk/year-5-sphero-programming.html/">https://www.ilearn2.co.uk/year-5-sphero-programming.html/</a> <a href="https://www.bbc.co.uk/teach/microbit/teacher-resources/znm8mbk">https://www.bbc.co.uk/teach/microbit/teacher-resources/znm8mbk</a>	<a href="https://www.ilearn2.co.uk/textprogrammingstudent.html/">https://www.ilearn2.co.uk/textprogrammingstudent.html/</a>

Year 6	Autumn		Spring		Summer	
	<u>E- Safety</u>	<u>Spreadsheets</u>	<u>BBC Micro: bit</u>	<u>Programming in Python</u>	<u>Digital Art</u>	<u>Digital Advancements</u>
	Use technology respectfully and responsibly. Identify a range of ways to report concerns about content and contact in and out of school. Be discerning when evaluating digital content.	Understand how computer networks enable computers to communicate and collaborate. Independently select, use and combine a variety of software to design and create content for a given audience including collecting analysing, evaluating and presenting data and information.	Create programs which use variables. Include use of sequences, selection, and repetition with the hardware used to explore real world systems. Solve problems by decomposing them into smaller parts. Use variables, sequence, selection and repetition in programs. Use logical reasoning to explain how increasingly complex algorithms work.	Create programs which use variables. Include use of sequences, selection, and repetition with the hardware used to explore real world systems. Solve problems by decomposing them into smaller parts. Use variables, sequence, selection and repetition in programs.	Design and create a range of programs, systems and content for a given audience.	Show awareness of how computers and digital technology helps us today. Understand how technology has changed over time and represent it as an interactive timeline. Understand the impact (positive/negative) technological changes have on society. Predict how technology will change in the future.
Supporting Resources	<a href="https://projectevolve.co.uk/toolkit/resources/years/6/">https://projectevolve.co.uk/toolkit/resources/years/6/</a>  <a href="https://www.ilearn2.co.uk/e-safety---key-stage-2.html/">https://www.ilearn2.co.uk/e-safety---key-stage-2.html/</a>	<a href="https://www.ilearn2.co.uk/year-6-data-detectives/">https://www.ilearn2.co.uk/year-6-data-detectives/</a>	<a href="https://www.bbc.co.uk/teach/microbit/teacher-resources/znm8mbk">https://www.bbc.co.uk/teach/microbit/teacher-resources/znm8mbk</a>	<a href="https://www.ilearn2.co.uk/year6.html/">https://www.ilearn2.co.uk/year6.html/</a>	<a href="https://www.ilearn2.co.uk/imageeditingteacher.html/">https://www.ilearn2.co.uk/imageeditingteacher.html/</a>	<a href="https://www.ilearn2.co.uk/year-6-computers-past-present-future.html/">https://www.ilearn2.co.uk/year-6-computers-past-present-future.html/</a>

