

# Lea Community Primary School



## Computing Curriculum Map



Academic year 2023-2024

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
EYFS	<p><b>Computing through continuous provision</b></p>	<p><b>Computer systems and networks</b> Using a computer</p> <p><b>Online Safety</b> (Penguin Pig)</p>	<p><b>Programming 1</b> All about instructions</p>	<p><b>Computer systems and networks</b> Exploring hardware</p> <p><b>Online safety</b> (Smartie the Penguin)</p>	<p><b>Programming 2</b> Programming Bee-Bots</p>	<p><b>Data Handling</b> Introduction to data</p>
Year One	<p><b>Online Safety</b></p> <p><b>Exploring Purple Mash</b></p> <p><u>National Curriculum</u> 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.</p>	<p><b>Grouping and Sorting</b></p> <p><b>LEGO Builders</b></p> <p><u>National Curriculum</u> Understand what algorithms are; how they are implemented as programs on digital devices; and that programs execute by following precise and unambiguous instructions.</p>	<p><b>Pictograms</b></p> <p><b>Maze Explorers</b></p> <p><u>National Curriculum</u> Understand what algorithms are; how they are implemented as programs on digital devices; and that programs execute by following precise and unambiguous instructions.</p> <p>Create and debug simple programs.</p> <p>Use logical reasoning to predict the behaviour of simple programs.</p> <p>Use technology purposefully to create, organise, store,</p>	<p><b>Animated Story Books</b></p> <p><u>National Curriculum</u> Use technology purposefully to create, organise, store, manipulate and retrieve digital content.</p>	<p><b>Coding</b></p> <p><u>National Curriculum</u> Understand what algorithms are; how they are implemented as programs on digital devices; and that programs execute by following precise and unambiguous instructions.</p> <p>Create and debug simple programs.</p> <p>Use logical reasoning to</p>	<p><b>Spreadsheets</b></p> <p><b>Technology Outside School</b></p> <p><u>National Curriculum</u> Use technology purposefully to create, organise, store, manipulate and retrieve digital content.</p> <p>Recognise common uses of information technology beyond school.</p>

			manipulate and retrieve digital content.		predict the behaviour of simple programs.  Use technology purposefully to create, organise, store, manipulate and retrieve digital content.	
Year Two	<p><b><u>Coding</u></b></p> <p><u>National Curriculum</u> Understand what algorithms are; how they are implemented as program on digital devices; and that programs execute by following precise and unambiguous instructions.</p> <p>Create and debug simple programs.</p> <p>Use logical reasoning to predict the behaviour of simple programs.</p>	<p><b><u>Online Safety</u></b></p> <p><b><u>Spreadsheets</u></b></p> <p><u>National Curriculum</u> Use technology purposefully to create, organise, store, manipulate and retrieve digital content.</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 the internet or other online technologies.</p>	<p><b><u>Questioning</u></b></p> <p><b><u>Effective Searching</u></b></p> <p><u>National Curriculum</u> Use technology purposefully to create, organise, store, manipulate and retrieve digital content.</p> <p>Recognise common uses of information technology beyond school.</p>	<p><b><u>Creating Pictures</u></b></p> <p><u>National Curriculum</u> Use technology purposefully to create, organise, store, manipulate and retrieve digital content.</p>	<p><b><u>Making Music</u></b></p> <p><u>National Curriculum</u> Use technology purposefully to create, organise, store, manipulate and retrieve digital content.</p>	<p><b><u>Presenting Ideas</u></b></p> <p><u>National Curriculum</u> Use technology purposefully to create, organise, store, manipulate and retrieve digital content.</p>

<p>Year Three</p>	<p style="text-align: center;"><b><u>Coding</u></b></p> <p style="text-align: center;"><u>National Curriculum</u> 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> <p>Use logical reasoning to explain how some simple algorithms work and to detect and correct errors in algorithms and programs.</p>	<p style="text-align: center;"><b><u>Online Safety</u></b></p> <p style="text-align: center;"><b><u>Spreadsheets</u></b></p> <p style="text-align: center;"><u>National Curriculum</u> 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>Use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact.</p>	<p style="text-align: center;"><b><u>Touch Typing</u></b></p> <p style="text-align: center;"><b><u>E-mail</u></b></p> <p style="text-align: center;"><u>National Curriculum</u> 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>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>Use technology safely, respectfully and responsibly; recognise acceptable/unacceptable</p>	<p style="text-align: center;"><b><u>Branching Databases</u></b></p> <p style="text-align: center;"><u>National Curriculum</u> 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 style="text-align: center;"><b><u>Simulations</u></b></p> <p style="text-align: center;"><b><u>Grasping</u></b></p> <p style="text-align: center;"><u>National Curriculum</u> 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 style="text-align: center;"><b><u>Presenting using PowerPoint</u></b></p> <p style="text-align: center;"><u>National Curriculum</u> 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>Use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact.</p>
-------------------	--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

			behaviour; identify a range of ways to report concerns about content and contact.			
Year Four	<p><b><u>Coding</u></b></p> <p><u>National Curriculum</u> 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> <p>Use logical reasoning to explain how some simple algorithms work and to detect and correct errors in algorithms and programs.</p> <p>Select, use and combine a variety of software (including internet</p>	<p><b><u>Online Safety</u></b></p> <p><b><u>Effective Searching</u></b></p> <p><u>National Curriculum</u> 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>Use search technologies effectively, appreciate how results are selected and ranked, and be discerning in evaluating digital content.</p> <p>Use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report</p>	<p><b><u>Logo</u></b></p> <p><u>National Curriculum</u> 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> <p>Use logical reasoning to explain how some simple algorithms work and to detect and correct errors in algorithms and programs.</p>	<p><b><u>Animation</u></b></p> <p><u>National Curriculum</u> 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><b><u>Spreadsheets</u></b></p> <p><u>National Curriculum</u> 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><b><u>Hardware Investigators</u></b></p> <p><b><u>Making Music</u></b></p> <p><u>National Curriculum</u> 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>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>

	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.	concerns about content and contact.				
Year Five	<p style="text-align: center;"><b><u>Coding</u></b></p> <p style="text-align: center;"><b><u>Online Safety</u></b></p> <p><u>National Curriculum</u> 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</p>	<p style="text-align: center;"><b><u>Spreadsheets</u></b></p> <p><u>National Curriculum</u> 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 style="text-align: center;"><b><u>Databases</u></b></p> <p style="text-align: center;"><b><u>Game Creator</u></b></p> <p><u>National Curriculum</u> 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 software (including internet services) on a range of digital devices</p>	<p style="text-align: center;"><b><u>3D Modelling</u></b></p> <p><u>National Curriculum</u> 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</p>	<p style="text-align: center;"><b><u>Concept Maps</u></b></p> <p><u>National Curriculum</u> 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 style="text-align: center;"><b><u>Word Processing</u></b></p> <p><u>National Curriculum</u> 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>Use search technologies effectively, appreciate how results are selected and ranked, and be</p>

	<p>forms of input and output.</p> <p>Use logical reasoning to explain how some simple algorithms work and to detect and correct errors in algorithms and programs.</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>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</p>		<p>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>Use search technologies effectively, appreciate how results are selected and ranked, and be discerning in evaluating digital content.</p>	<p>collecting, analysing, evaluating and presenting data and information.</p>	<p>including collecting, analysing, evaluating and presenting data and information.</p> <p>Use search technologies effectively, appreciate how results are selected and ranked, and be discerning in evaluating digital content.</p>	<p>discerning in evaluating digital content.</p>
--	-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	--	---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	-------------------------------------------------------------------------------	--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	--------------------------------------------------



	<p>presenting data and information.</p> <p>Use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact.</p> <p>Use search technologies effectively, appreciate how results are selected and ranked, and be discerning in evaluating digital content.</p>					
Year Six	<p><b><u>Coding</u></b></p> <p><b><u>Online Safety</u></b></p> <p><u>National Curriculum</u> 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><b><u>Spreadsheets</u></b></p> <p><u>National Curriculum</u> 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</p>	<p><b><u>Blogging</u></b></p> <p><b><u>Spreadsheets</u></b></p> <p><u>National Curriculum</u> 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><b><u>Networks</u></b></p> <p><u>National Curriculum</u> Understand computer networks, including the Internet; how they can provide multiple services, such as the World Wide Web; and</p>	<p><b><u>Quizzing</u></b></p> <p><b><u>Understanding Binary</u></b></p> <p><u>National Curriculum</u> Design, write and debug programs that accomplish specific goals, including controlling or simulating</p>	<p><b><u>Text Adventures</u></b></p> <p><u>National Curriculum</u> Design, write and debug programs that accomplish specific goals, including controlling or simulating physical systems; solve problems by decomposing them into smaller parts.  Use sequence, selection and repetition in</p>



	<p>Use sequence, selection and repetition in programs; work with variables and various forms of input and output.</p> <p>Use logical reasoning to explain how some simple algorithms work and to detect and correct errors in algorithms and programs.</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>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</p>	<p>presenting data and information.</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>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>Use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact.</p>	<p>the opportunities they offer for communication and collaboration.</p>	<p>physical systems; solve problems by decomposing them into smaller parts.</p> <p>Use logical reasoning to explain how some simple algorithms work and to detect and correct errors in algorithms and programs.</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</p>	<p>programs; work with variables and various forms of input and output.</p> <p>Use logical reasoning to explain how some simple algorithms work and to detect and correct errors in algorithms and programs.</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>(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>Use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact.</p>				<p>given goals, including collecting, analysing, evaluating and presenting data and information.</p>	
--	--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	--	--	--	------------------------------------------------------------------------------------------------------	--