Lea Community Primary School



Computing Curriculum Map



Academic year 2023-2024

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

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

			Touch Typing			
Year Three	Coding National Curriculum 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 programs; work with variables and various forms of input and output. Use logical reasoning to explain how some simple algorithms work and to detect and correct errors in algorithms and programs.	Online Safety Spreadsheets National Curriculum 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. Use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact.	E-mail National Curriculum 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. 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. Use technology safely, respectfully and responsibly; recognise acceptable/unacceptable	Branching Databases National Curriculum 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.	Simulations Grasping National Curriculum 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.	Presenting using PowerPoint National Curriculum 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. Use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact.

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

	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.				
	Coding		<u>Databases</u>	3D Modelling	Concept Maps	Word Processing
Year Five	Online Safety National Curriculum 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 programs; work with variables and various	Spreadsheets National Curriculum 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.	Mational Curriculum Design, write and debug programs that accomplish specific goals, including controlling or simulating physical systems; solve problems by decomposing them into smaller parts. Select, use and combine a variety of software (including internet services) on a range of digital devices	National Curriculum 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	National Curriculum 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,	National Curriculum 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. Use search technologies effectively, appreciate how results are selected and ranked, and be

forms of input and	to design and create a	collecting,	including	discerning in evaluating
output.	range of programs,	analysing,	collecting,	digital content.
·	systems and content	evaluating	analysing,	
Use logical reasoning to	that accomplish given	and	evaluating	
explain how some simple	goals, including	presenting	and	
algorithms work and to	collecting, analysing,	data and	presenting	
detect and correct errors	evaluating and	information.	data and	
in algorithms and	presenting data and	inionnation.	information.	
programs.	information.			
Understand computer	information.		Use search	
networks, including the	Use search technologies		technologies	
Internet; how they can	effectively, appreciate		effectively,	
provide multiple services,	how results are selected		appreciate how	
such as the World Wide	and ranked, and be		results are	
Web; and the	discerning in evaluating		selected and	
opportunities they offer	digital content.		ranked, and be	
for communication and			discerning in evaluating	
collaboration.			digital content.	
			digital content.	
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. Use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact. Use search technologies effectively, appreciate how results are selected and ranked, and be discerning in evaluating digital content.					
Year Six	Coding Online Safety National Curriculum Design, write and debug programs that accomplish specific goals, including controlling or simulating physical systems; solve problems by decomposing them into smaller parts.	Spreadsheets National Curriculum 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	Spreadsheets National Curriculum 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.	Networks National Curriculum Understand computer networks, including the Internet; how they can provide multiple services, such as the World Wide Web; and	Quizzing Understanding Binary National Curriculum Design, write and debug programs that accomplish specific goals, including controlling or simulating	National Curriculum 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

Use sequence, selection	presenting data and	Select, use and combine	the	physical	programs; work with
and repetition in	information.	a variety of software	opportunities	systems; solve	variables and various
programs; work with		(including internet	they offer for	problems by	forms of input and
variables and various	Select, use and combine	services) on a range of	communication	decomposing	output.
forms of input and	a variety of software	digital devices to design	and	them into	·
output.	(including internet	and create a range of	collaboration.	smaller parts.	Use logical reasoning to
	services) on a range of	programs, systems and			explain how some simple
Use logical reasoning to	digital devices to design	content that accomplish		Use logical	algorithms work and to
explain how some simple	and create a range of	given goals, including		reasoning to	detect and correct errors
algorithms work and to	programs, systems and	collecting, analysing,		explain how	in algorithms and
detect and correct errors	content that accomplish	evaluating and		some simple	programs.
in algorithms and	given goals, including	presenting data and		algorithms	
programs.	collecting, analysing,	information.		work and to	Select, use and combine
	evaluating and			detect and	a variety of software
Understand computer	presenting data and	Use technology safely,		correct errors	(including internet
networks, including the	information.	respectfully and		in algorithms	services) on a range of
Internet; how they can		responsibly; recognise		and programs.	digital devices to design
provide multiple services,		acceptable/unacceptable			and create a range of
such as the World Wide		behaviour; identify a		Select, use and	programs, systems and
Web; and the		range of ways to report		combine a	content that accomplish
opportunities they offer		concerns about content		variety of	given goals, including
for communication and		and contact.		software	collecting, analysing,
collaboration.				(including	evaluating and
				internet	presenting data and
Use search technologies				services) on a	information.
effectively, appreciate				range of digital	
how results are selected				devices to	
and ranked, and be				design and	
discerning in evaluating				create a range	
digital content.				of programs,	
				systems and	
Select, use and combine				content that	
a variety of software				accomplish	

(including internet		given goals,	
services) on a range of		including	
digital devices to design		collecting,	
and create a range of		analysing,	
programs, systems and		evaluating and	
content that accomplish		presenting	
given goals, including		data and	
collecting, analysing,		information.	
evaluating and			
presenting data and			
information.			
inionnation.			
Lico tochnology cofoly			
Use technology safely,			
respectfully and			
responsibly; recognise			
acceptable/unacceptable			
behaviour; identify a			
range of ways to report			
concerns about content			
and contact.			