<u>Long Term Plan for Computing</u> <u>Nursery (3 – 4 years olds)</u>

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2		
Key	Why am I special?	How can I see in the dark?	Is it raining today? Why	Is the grass starting	What are the wonders	Where are we going?		
Questions			are my fingers cold?	to grow?	of Tyldesley?			
	What happens in autumn?	Why are babies						
		wonderful?		What comes out of				
				an egg?				
Key	All About Me	Dark and Light	Weather	Spring	Our Town Tyldesley	Out and About		
Learning								
	Autumn	Celebrations	It's Cold	New Life				
EYFS	Seeks to acquire basic skills i	n turning on and operating sor	ne ICT equipment.					
Statements				•				
	Operates mechanical toys, fo	or example: turns the knob on	a windup toy or pulls back on	a friction car.				
			. 1. 1					
	knows now to operate simpl	Knows how to operate simple equipment, for example: turns on a computer, clicks a mouse and uses a remote control.						
	Uses ICT hardware to interes	st with ago appropriate compa	tor coftware					
	Uses ici nardware to interac	t with age appropriate compu	iei suitwale.					

Long Term Plan for Computing Reception

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2	
Key	What makes me	What is there to	How has Tyldesley	What are the secrets	What lives in the	Who are your favourite	
Questions	marvellous?	celebrate?	changed in 50 years?	of the garden?	blue planet?	story characters?	
Key Learning	All About Me	Celebrations	Tyldesley	Minibeasts/ growing	Under the sea	Once upon a time	
EYFS	Knows that information can be retrieved from a computer.						
Statements							
	Shows skill in making toys/te	echnology work by pressing dif	ferent parts or sifting flaps to	achieve effects such as sounds	s, movements or new images.		
	Children recognise that a rar	nge of technology is used in pla	ices such as homes and school	s They select and use technological	ogy for particular purposes.		
	Can complete a simple pictogram on a computer.						
	To use technology purposful	ly to complete different tasks	using a mouse, kepboard and	tablet.			

Long Term Plan for Computing Year 1 and Year 2

	2024 – 2025						
	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2	
Key Questions	How do I use the technology around me?	How can you create the Word?		ith the program? egin to Scratch?	Can I be a digital composer?	How can I sort the data?	
Key Learning	Information Technology	Digital Literacy	Compute	er Science	Information Technology	Computer Science	
Curriculum objectives o a a c c c c c c c c c c c c c c c c c	Jse technology burposefully to create, organise, store, manipulate and retrieve digital content. Recognise common uses of information technology beyond school. Jse 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 ponline technologies.	Use logical reasoning to predict the behaviour of simple programs. Use technology purposefully to create, organise, store, manipulate and retrieve digital content. Recognise common uses of information technology beyond school. 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.	implemented as programs programs execute by follow instructions. Create and debug simple programs	chms are; how they are on digital devices; and that ring precise and unambiguous ograms. Redict the behaviour of simple	Use technology purposefully to create, organise, store, manipulate and retrieve digital content Recognise common uses of information technology beyond school 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.	Use technology purposefully to create, organise, store, manipulate and retrieve digital content. Understand what algorithms are; how they are implemented as programs on digital devices; and that programs execute by following precise and unambiguous instructions. Use logical reasoning to predict the behaviour of simple programs.	

Long Term Plan for Computing Year 1 and Year 2

			2025 – 2026		
	Autumn 1	Autumn 2	Spring 1 Spring 2	Summer 1	Summer 2
Key Questions	What is IT?	Do you have the power to create a slide?	Can you be the boss of the robot? Can you be a chase creator?	How do you capture a moment?	How can pictures represent data?
Key Learning	Information Technlogy	Digital Literacy Microsoft PowerPoint	Computer Science	Digital Literacy	Information Technology
Curriculum objectives	Use technology purposefully to create, organise, store, manipulate and retrieve digital content. Recognise common uses of information technology beyond school. 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.	Use logical reasoning to predict the behaviour of simple programs. Use technology purposefully to create, organise, store, manipulate and retrieve digital content. Recognise common uses of information technology beyond school. 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	Understand what algorithms are; how they are implemented as programs 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. 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.	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	Use technology purposefully to create, organise, store, manipulate and retrieve digital content. Recognise common uses of information technology beyond school. 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.

Long Term Plan for Computing Year 3 and Year 4

			2024 – 2025		
	Autumn 1	Autumn 2	Spring 1 Spring 2	Summer 1	Summer 2
Key Questions	How are computers like a family?	How to you create the Word?	How do we continue to Scratch?	Where does the data go?	How can the picture move?
Key Learning	Information Technology	Digital Literacy Microsoft Word	Computer Science Coding	Information Technology	Information Technology Digital Literacy
National Curriculum objectives	Use technology purposefully to create, organise, store, manipulate and retrieve digital content. Recognise common uses of information technology beyond school. 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.	Use logical reasoning to predict the behaviour of simple programs. Use technology purposefully to create, organise, store, manipulate and retrieve digital content. Recognise common uses of information technology beyond school. 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	Understand what algorithms are; how to implemented as programs on digital devices; programs execute by following precise and unart instructions. Create and debug simple programs. Use logical reasoning to predict the behaviour of programs. Use technology safely and respectfully, keeping information private; identify where to go for support when they have concerns about contact on the internet or other online technolog. Use sequence, selection, and repetition in programs with variables and various forms of information.	and that purposefully to create, organise, store, manipulate and retrieve digital content. 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 technology purposefully to create, organise, store, manipulate and retrieve digital content. Recognise common uses of information technology beyond school.
		online technologies.		about content or contact on the internet or other online technologies.	

Long Term Plan for Computing Year 3 and Year 4

			2025 – 2026			
	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Key	How great is the internet?	How can a photo be	How can a turtl	e make shapes?	What information can be	Do you have the Power to
Questions		changed?			data logged?	create a slideshow?
			Are you the next I	Minecraft creator?		
Key	Information Technology	Digital Literacy	Compute	er Science	Information Technology	Digital Literacy
Learning						Microsoft PowerPoint
National	Use technology	Use logical reasoning to	•	nms are; how they are	Use technology	Use search technologies
Curriculum	purposefully to create,	predict the behaviour of		on digital devices; and that	purposefully to create,	effectively, appreciate how
objectives	organise, store, manipulate	simple programs.	, ,	ng precise and unambiguous	organise, store, manipulate	results are selected and
	and retrieve digital		instructions.		and retrieve digital	ranked, and be discerning
	content.	Use technology			content.	in evaluating digital
		purposefully to create,	Create and debug simple pro	ograms.		content.
	Recognise common uses of	organise, store, manipulate			Recognise common uses of	
	information technology	and retrieve digital		dict the behaviour of simple	information technology	Select, use and combine a
	beyond school.	content.	programs.		beyond school.	variety of software
	Han to the alone of the send		lles technicales or established or		Han to shoot on a setal or and	(including internet services)
	Use technology safely and	Recognise common uses of		espectfully, keeping personal	Use technology safely and	on a range of digital devices
	respectfully, keeping	information technology	-	y where to go for help and	respectfully, keeping	to design and create a
	personal information private; identify where to	beyond school.	contact on the internet or of	concerns about content or	personal information private; identify where to	range of programs, systems and content that
	go for help and support	Use technology safely and	contact on the internet or of	ther offine technologies.	go for help and support	
	when they have concerns	respectfully, keeping	Use seguence selection a	and repetition in programs;	when they have concerns	accomplish given goals, including collecting,
	about content or contact	personal information	T	various forms of input and	about content or contact	analysing, evaluating and
	on the internet or other	private; identify where to	output.	ranous forms of input and	on the internet or other	presenting data and
	online technologies.	go for help and support	output.		online technologies.	information.
	omme teermologies.	when they have concerns			omme teermologies.	in ormation.
	Select, use and combine a	about content or contact			Select, use and combine a	Use technology safely and
	variety of software	on the internet or other			variety of software	respectfully, keeping
	(including internet	online technologies.			(including internet	personal information
	services) on a range of				services) on a range of	private; identify where to
	digital devices to design				digital devices to design	go for help and support

and create a range of		and create a range of	when they have concerns
programs, systems and		programs, systems and	about content or contact
content that accomplish		content that accomplish	on the internet or other
given goals, including		given goals, including	online technologies.
collecting, analysing,		collecting, analysing,	
evaluating and presenting		evaluating and presenting	
data and information.		data and information.	

Long Term Plan for Computing Year 5 and Year 6

			2024 – 2025			
	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Key	Do you know the power of	How much can you show	How does the co	ookie crumble?	How can a video	How does a flat file
Questions	search?	about the Word?			be edited?	database work?
			Are you the 0	Quiz Master?		
Key	Information Technology	Digital Literacy	Compute	r Science	Digital Literacy	Information Technology
Learning					Information Technology	
		Microsoft Word				
National	Understand computer	Use search technologies	Design, write and debug	. •	Use technology	Use technology
Curriculum	networks including the	effectively, appreciate how	specific goals, including conti		purposefully to create,	purposefully to create,
objectives	internet; how they can	results are selected and	systems; solve problems b	y decomposing them into	organise, store, manipulate	organise, store, manipulate
	provide multiple services,	ranked, and be discerning	smaller parts.		and retrieve digital	and retrieve digital
	such as the world wide	in evaluating digital			content.	content.
	web; and the opportunities	content.	Use sequence, selection, a			
	they offer for		work with variables and variables	arious forms of input and	Recognise common uses of	Understand computer
	communication and	Select, use and combine a	output.		information technology	networks including the
	collaboration.	variety of software			beyond school.	internet; how they can
	1	(including internet	Use logical reasoning to	•		provide multiple services,
	Use search technologies	services) on a range of	algorithms work and to de	etect and correct errors in	Use technology safely and	such as the world wide
	effectively, appreciate how	digital devices to design	algorithms and programs.		respectfully, keeping	web; and the opportunities
	results are selected and	and create a range of	Illes Assissations and the second	and the state of t	personal information	they offer for
	ranked, and be discerning	programs, systems and	Use technology safely, res		private; identify where to	communication and
	in evaluating digital	content that accomplish	recognise acceptable/unacce	•	go for help and support	collaboration.
	content.	given goals, including	range of ways to report co	oncerns about content and	when they have concerns	lice technology cofely and
	Calast use and combine	collecting, analysing,	contact.		about content or contact on the internet or other	Use technology safely and respectfully, keeping
	Select, use and combine a	evaluating and presenting data and information.			online technologies.	respectfully, keeping personal information
	variety of software				online technologies.	private; identify where to
	(including internet					go for help and support
	services) on a range of					when they have concerns
	digital devices to design					about content or contact
	and create a range of					about content of contact

programs, systems and		on the internet or other
content that accomplish		online technologies.
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.		

Long Term Plan for Computing Year 5 and Year 6

			2025 – 2026			
	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Key	How does the data	How do you Excel?	What variable g	gets changed?	What web page can you	Do you have the power to
Questions	transfer?				create?	create the ultimate
			Can you pass the m	icrobit challenge?		slideshow?
Key	Information Technology	Information Technology	Computer	Science	Information Technology	Digital Literacy
Learning						
		Digital Literacy				Microsoft PowerPoint
National	Understand computer	Understand computer	Design, write and debug p	=	Understand computer	Use search technologies
Curriculum	networks including the	networks including the	specific goals, including of		networks including the	effectively, appreciate how
objectives	internet; how they can	internet; how they can	physical systems; solve probl	ems by decomposing them	internet; how they can	results are selected and
	provide multiple services,	provide multiple services,	into smaller parts.		provide multiple services,	ranked, and be discerning
	such as the world wide web;	such as the world wide web;			such as the world wide	in evaluating digital
	and the opportunities they	and the opportunities they	Use sequence, selection, ar		web; and the opportunities	content.
	offer for communication	offer for communication	work with variables and va	arious forms of input and	they offer for	
	and collaboration.	and collaboration.	output.		communication and	Select, use and combine a
					collaboration.	variety of software
	Use search technologies	Select, use and combine a	Use logical reasoning to e			(including internet
	effectively, appreciate how	variety of software	algorithms work and to de	tect and correct errors in	Use search technologies	services) on a range of
	results are selected and	(including internet services)	algorithms and programs.		effectively, appreciate how	digital devices to design
	ranked, and be discerning in	on a range of digital devices		.6.11	results are selected and	and create a range of
	evaluating digital content.	to design and create a range	Use technology safely, res	•	ranked, and be discerning	programs, systems and
		of programs, systems and	recognise acceptable/unacce	•	in evaluating digital	content that accomplish
	Select, use and combine a	content that accomplish	a range of ways to report co	oncerns about content and	content.	given goals, including
	variety of software	given goals, including	contact.			collecting, analysing,
	(including internet services)	collecting, analysing,			Select, use and combine a	evaluating and presenting
	on a range of digital devices	evaluating and presenting			variety of software	data and information.
	to design and create a range	data and information.			(including internet	
	of programs, systems and	Use technology safely,			services) on a range of	
	content that accomplish	respectfully and			digital devices to design	•

	11.1	
given goals, including	responsibly; recognise	and create a range of
collecting, analysing,	acceptable/ unacceptable	programs, systems and
evaluating and presenting	behaviour; identify a range	content that accomplish
data and information.	of ways to report concerns	given goals, including
	about content and contact.	collecting, analysing,
Use technology safely,		evaluating and presenting
respectfully and		data and information.
responsibly; recognise		Use technology safely,
acceptable/unacceptable		respectfully and
behaviour; identify a range		responsibly; recognise
of ways to report concerns		acceptable/unacceptable
about content and contact.		behaviour; identify a range
		of ways to report concerns
		about content and contact.