#### <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.			
	l.,						
	Knows how to operate simple equipment, for example: turns on a computer, clicks a mouse and uses a remote control.						
	Uses ICT hardware to interac	t with age appropriate compu	ter software.				

# 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 schoo	is They select and use technologic	ogy for particular purposes.		
	Can complete a simple pictogram on a computer.						
	To use technology purposful	To use technology purposfully to complete different tasks using a mouse, kepboard and tablet.					

#### Long Term Plan for Computing Year 1 and Year 2

			2022 – 2023			
	Autumn 1	Autumn 2	Spring 1 Sp	pring 2	Summer 1	Summer 2
Key Questions	How do I use the technology around me?	How can you create the Word?	Can you get with the progra  How do we begin to Scratcl		Can I be a digital composer?	How can I sort the data?
Key Learning	Information Technology	Digital Literacy	Computer Science		Information Technology	Computer Science
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 online technologies.	Understand what algorithms are; implemented as programs on digital deprograms execute by following precise are instructions.  Create and debug simple programs.  Use logical reasoning to predict the behap programs.	evices; and that nd unambiguous	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

			2023 – 2024			
	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 bo Can you be a ch		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
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 online technologies.	Understand what algorithic implemented as programs or programs execute by following instructions.  Create and debug simple programs.  Use logical reasoning to prediprograms.  Use technology safely and resinformation private; identify support when they have contact on the internet or other streets.	grams.  lict the behaviour of simple spectfully, keeping personal where to go for help and oncerns about content or	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.  Use logical reasoning to predict the behaviour of simple programs.	information technology beyond school.

#### Long Term Plan for Computing Year 3 and Year 4

		2022 – 2023			
Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Key How are computers Questions like a family?	How to you create the Word?	How do we continue	How do we continue to Scratch?		How can the picture move?
Key Information Technolo Learning	y Digital Literacy Microsoft Word	Computer Sc Coding		Information Technology	Information Technology Digital Literacy
National Use techno Curriculum purposefully to cre organise, store, manipu	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.  To Use technology safely and respectfully, keeping personal information	Understand what algorithms implemented as programs on a programs execute by following prinstructions.  Create and debug simple progra  Use logical reasoning to predict programs.  Use technology safely and resperinformation private; identify which support when they have conducted to the internet or other.  Use sequence, selection, and work with variables and variation output.	are; how they are digital devices; and that precise and unambiguous ms.  the behaviour of simple ectfully, keeping personal here to go for help and terns about content or online technologies.	Use technology 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 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	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

#### Long Term Plan for Computing Year 3 and Year 4

			2023 – 2024			
	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Key	How great is the internet?	Do you have the Power to	How can a turtl	e make shapes?	What information can be	How can a photo be
Questions		create a slideshow?			data logged?	changed?
			•	Minecraft creator?		
Key	Information Technology	Digital Literacy	Compute	r Science	Information Technology	Digital Literacy
Learning		Microsoft PowerPoint				
National	Use technology	Use search technologies	_	nms are; how they are	Use technology	Use logical reasoning to
Curriculum	purposefully to create,	effectively, appreciate how		on digital devices; and that	purposefully to create,	predict the behaviour of
objectives	organise, store, manipulate	results are selected and	, ,	ng precise and unambiguous	organise, store, manipulate	simple programs.
	and retrieve digital	ranked, and be discerning	instructions.		and retrieve digital	
	content.	in evaluating digital			content.	Use technology
	D	content.	Create and debug simple pro	ograms.	D	purposefully to create,
	Recognise common uses of	Calant was and associate		disk the haberians of simula	Recognise common uses of	organise, store, manipulate
	information technology	Select, use and combine a variety of software	• •	dict the behaviour of simple	information technology	and retrieve digital
	beyond school.	·,	programs.		beyond school.	content.
	Use technology safely and	(including internet services) on a range of	Use technology safely and re	espectfully keeping personal	Use technology safely and	Recognise common uses of
	respectfully, keeping	digital devices to design	information private; identify		respectfully, keeping	information technology
	personal information	and create a range of	support when they have		personal information	beyond school.
	private; identify where to	programs, systems and	contact on the internet or ot		private; identify where to	beyond school.
	go for help and support	content that accomplish	contact on the internet of ot	iner omme teermologies.	go for help and support	Use technology safely and
	when they have concerns	given goals, including	Use sequence selection a	nd repetition in programs;	when they have concerns	respectfully, keeping
	about content or contact	collecting, analysing,	work with variables and v		about content or contact	personal information
	on the internet or other	evaluating and presenting	output.	and and and	on the internet or other	private; identify where to
	online technologies.	data and information.			online technologies.	go for help and support
						when they have concerns
	Select, use and combine a	Use technology safely and			Select, use and combine a	about content or contact
	variety of software	respectfully, keeping			variety of software	on the internet or other
	(including internet	personal information			(including internet	online technologies.
	services) on a range of	private; identify where to			services) on a range of	<u>-</u>
	digital devices to design	go for help and support			digital devices to design	

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

			2022 – 2023			
	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	okie crumble?	How can a video	How does a flat file
Questions	search?	about the Word?			be edited?	database work?
			Are you the Qu	uiz Master?		
Key	Information Technology	Digital Literacy	Computer	Science	Digital Literacy	Information Technology
Learning					Information Technology	
		Microsoft Word				
National	Understand computer	Use search technologies	Design, write and debug p	•	Use technology	Use technology
Curriculum	networks including the	effectively, appreciate how	specific goals, including contro		purposefully to create,	purposefully to create,
objectives	internet; how they can	results are selected and	systems; solve problems by	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, and			
	they offer for		work with variables and var	rious 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		undata bassa ana ataunda	beyond school.	internet; how they can
	llas sasuah tashuslasias	(including internet	Use logical reasoning to ex	•	Han task aslam, safal, and	provide multiple services,
	Use search technologies effectively, appreciate how	services) on a range of digital devices to design	algorithms work and to det algorithms and programs.	ect and correct errors in	Use technology safely and respectfully, keeping	such as the world wide web; and the opportunities
	results are selected and	and create a range of	algorithms and programs.		respectfully, keeping personal information	they offer for
	ranked, and be discerning	programs, systems and	Use technology safely, resp	pactfully and responsibly:	private; identify where to	communication and
	in evaluating digital	content that accomplish	recognise acceptable/unaccep		go for help and support	collaboration.
	content.	given goals, including	range of ways to report cor		when they have concerns	Collaboration.
	Content.	collecting, analysing,	contact.	icerns about content and	about content or contact	Use technology safely and
	Select, use and combine a	evaluating and presenting	contact.		on the internet or other	respectfully, keeping
	variety of software	data and information.			online technologies.	personal information
	(including internet					private; identify where to
	services) on a range of					go for help and support
	digital devices to design					when they have concerns
	and create a range of					about content or 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

			2023 – 2024			
	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Key	How does the data	Do you have the power to	What variable	gets changed?	What web page can you	How do you Excel?
Questions	transfer?	create the ultimate			create?	
		slideshow?	Can you pass the m	nicrobit challenge?		
Key	Information Technology	Digital Literacy	Compute	r Science	Information Technology	Information Technology
Learning						
		Microsoft PowerPoint				Digital Literacy
National	Understand computer	Use search technologies	Design, write and debug		Understand computer	Understand computer
Curriculum	networks including the	effectively, appreciate how	specific goals, including		networks including the	networks including the
objectives	internet; how they can	results are selected and	physical systems; solve prob	lems by decomposing them	internet; how they can	internet; how they can
	provide multiple services,	ranked, and be discerning in	into smaller parts.		provide multiple services,	provide multiple services,
	such as the world wide web;	evaluating digital content.			such as the world wide	such as the world wide
	and the opportunities they		Use sequence, selection, a		web; and the opportunities	web; and the opportunities
	offer for communication	Select, use and combine a	work with variables and va	arious forms of input and	they offer for	they offer for
	and collaboration.	variety of software	output.		communication and	communication and
		(including internet services)			collaboration.	collaboration.
	Use search technologies	on a range of digital devices	Use logical reasoning to	· · ·		
	effectively, appreciate how	to design and create a range	algorithms work and to de	etect and correct errors in	Use search technologies	Select, use and combine a
	results are selected and	of programs, systems and	algorithms and programs.		effectively, appreciate how	variety of software
	ranked, and be discerning in	content that accomplish		.6.11	results are selected and	(including internet
	evaluating digital content.	given goals, including	Use technology safely, res	• • • • • • • • • • • • • • • • • • • •	ranked, and be discerning	, ,
		collecting, analysing,	recognise acceptable/unacc	•	in evaluating digital	digital devices to design
	Select, use and combine a	evaluating and presenting	a range of ways to report c	oncerns about content and	content.	and create a range of
	variety of software	data and information.	contact.			programs, systems and
	(including internet services)				Select, use and combine a	content that accomplish
	on a range of digital devices				variety of software	given goals, including
	to design and create a range				(including internet	collecting, analysing,
	of programs, systems and				services) on a range of	evaluating and presenting
	content that accomplish				digital devices to design	data and information.

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