St George's Central CE Primary School and Nursery

Long Term Plan for Computing
Nursery (3 – 4 years olds)

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Key Questions	Why am I special? What happens in autumn?	How can I see in the dark? Why are babies wonderful?	Is it raining today? Why are my fingers cold?	Is the grass starting to grow? What comes out of an egg?	What are the wonders of Tyldesley?	Where are we going?
Key Learning	All About Me Autumn	Dark and Light Celebrations	Weather It's Cold	Spring New Life	Our Town Tyldesley	Out and About
EYFS Statements	Seeks to acquire basic skills in turning on and operating some ICT equipment. Operates mechanical toys, for example: turns the knob on a windup toy or pulls back on a friction car. Knows how to operate simple equipment, for example: turns on a computer, clicks a mouse and uses a remote control. Uses ICT hardware to interact with age appropriate computer software.					

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St George's Central CE Primary School and Nursery

Long Term Plan for Computing
Reception

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

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St George's Central CE Primary School and Nursery

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 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
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; 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.		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.	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.

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St George's Central CE Primary School and Nursery

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?	Can you get with the program? How do we begin to Scratch?		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; 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 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.

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St George's Central CE Primary School and Nursery

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 Questions	How great is the internet?	How can a photo be changed?	How can a turtle make shapes? Are you the next Minecraft creator?		What information can be data logged?	Do you have the Power to create a slideshow?
Key Learning	Information Technology	Digital Literacy	Computer Science		Information Technology	Digital Literacy Microsoft PowerPoint
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. Select, use and combine a variety of software (including internet services) on a range of	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; 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. Use sequence, selection, and repetition in programs; work with variables and various forms of input and output.		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. Select, use and combine a variety of software (including internet services) on a range of	Use search technologies effectively, appreciate how results are selected and ranked, and be discerning in evaluating 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 and respectfully, keeping personal information private; identify where to

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				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.	go for help and support when they have concerns about content or contact on the internet or other online technologies.
	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.				

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St George's Central CE Primary School and Nursery

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 online technologies. | 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.

Use sequence, selection, and repetition in programs; work with variables and various forms of input and output. | | 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 online technologies. | Use technology purposefully to create, organise, store, manipulate and retrieve digital content.

Recognise common uses of information technology beyond school.

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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 Questions	How does the data transfer?	How do you Excel?	What variable gets changed? Can you pass the microbit challenge?		What web page can you create?	Do you have the power to create the ultimate slideshow?
Key Learning	Information Technology	Information Technology Digital Literacy	Computer Science		Information Technology	Digital Literacy Microsoft PowerPoint
National Curriculum objectives	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. 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	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	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. Use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact.		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. Select, use and combine a variety of software (including internet services) on a range of digital devices to design	Use search technologies effectively, appreciate how results are selected and ranked, and be discerning in evaluating 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. .

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| | 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. | responsibly; recognise acceptable/ unacceptable behaviour; identify a range of ways to report concerns about content and contact. | | and create a range of programs, systems and content that accomplish given goals, including collecting, analysing, evaluating and presenting data and information.
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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 Questions	Do you know the power of search?	How much can you show about the Word?	How does the cookie crumble? Are you the Quiz Master?		How can a video be edited?	How does a flat file database work?
Key Learning	Information Technology	Digital Literacy Microsoft Word	Computer Science		Digital Literacy Information Technology	Information Technology
National Curriculum objectives	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. Select, use and combine a variety of software (including internet services) on a range of digital devices to design	Use search technologies effectively, appreciate how results are selected and ranked, and be discerning in evaluating 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.	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. Use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact.		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 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

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