Computing yearly overview Year 1 and Year 2

Computing is a subject that is taught every half term in Key Stage One following the Teach Computing scheme. The 2021 statutory framework for the Early Years Foundation stage does not have specific technology objectives. We will still continue to provide children will opportunities to access computing across the curriculum. Children in the Early Years are encouraged to follow their interests in regards to computing and have access to a range of technology in their free flow time.

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
EYFS	We use digital devices safely and respectfully.	We use technology purposefully Children will begin to develop an	We tell a grown-up if we feel worried.		We stick to what is age appropriate.	We keep personal details private
	Children will know what digital devices they have access to in and outside of school. They will know they must use kind hands and share. They will think about possible outcomes that may happen if they do not use devices safely.	understanding of what technology is and how technology helps us. Children will begin to see how different technologies can be used for different purposes.	Children will be able to name adults that they trust to tell if they see something online that upsets or worries them. Children will know that it is always best to tell an adult about anything they do or see online.		Children will understand what an age restriction is and why they are there. They will know that they should not access digital content that is too old for them.	Children will begin to learn about what 'personal details are' They will know to never talk to people online that they do not know in real life.
Year 1	Computing systems and networks - Technology around us	Creating media- digital pictures Children will begin to explore the	Programming- Moving a robot Children will begin to look at the	Data and information- Grouping data	Creating media- digital writing Children will use a computer to	Programming- Animation Children will begin to use the
		world of digital art and use an	concepts of early programming.	Children will begin by using labels	create and change text. They will	programme ScratchJr. Children
	Children will develop their understanding of technology and	exciting range of creative tools. Children will create their own	Children will explore using individual commands. They will	to put objects into groups and count the objects, before and	familiarise themselves with	will explore the way a project
	how it can help them. They will	paintings, while getting	identify what each floor robot	after the objects are grouped.	typing on a keyboard and begin using tools to change the look of	looks by investigating sprites and backgrounds. They will use
	become more familiar with the	inspiration from a range of other	command does and use that	They will then begin to	their writing. They will compare	programming blocks to use,
	different components of a	artists. Children will consider	knowledge to start predicting	demonstrate their ability to sort	the differences between using a	modify, and create programs.
	computer by developing their	their preferences when painting	the outcome of programs.	objects into different groups,	computer and writing on paper to	Children will continue to learn
	keyboard and mouse skills, and	with, and without, the use of	Children will be introduced to	based on the properties they	create text.	program design through
	also start to consider how to use	digital devices.	the early stages of program	choose. Finally, children will use		algorithms.
	technology responsibly.	End of unit aim:	design through the introduction	their ability to sort objects into		
	End of unit aim:	Dutho and of this unit children	of algorithms.	different groups to answer questions about data.		
	By the end of this unit, children	By the end of this unit, children should be able to make marks on	End of unit aim:			
	should be able to explain how	the screen using a range of tools.	By the end of this unit, children	End of unit aim:	End of unit aim:	End of unit aim:

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main parts of a computer.

paint tools and colours and

	Children will begin to develop mouse and keyboard skills and use these for a purpose. Children will begin to save and retrieve their work.	change the brush size accordingly.	difference between forwards, backwards, left and right turns and experiment with programming a Beebot. Children will begin to predict the outcome of an algorithm and debug as necessary.	a group of objects. Children can sort objects based on their properties and record and share what they have found.	should be able to use keys and type using them onto a word processor. Children will use the toolbar for a range of purposes, including changing the font, bold, italics and underline.	should be able to give commands to a sprite and create an algorithm for it. Children will create their own projects.
Year 2	Computing systems and	Programming- Robot algorithms	Creating media- digital	Data and information-	Creating media- digital music	Programming- Programming
	networks- IT around us	Children will continue to deepen	photography	Pictograms	Children will discuss how music	quizzes
	Children will build upon what they	their understanding of	Children will learn to recognise	Children will learn the term 'data'	makes them feel. They will make	Children will recap on learning
	learnt in year one by discussing	algorithms from year one.	that different devices can be	and they will begin to understand	patterns and use those patterns	from the Year 1 Scratch Junior
	how IT is being used for good in	Children will develop an	used to capture photographs and	what data means and how this	to make music with both	programming unit. Children begin
	our lives and explore how it	understanding of instructions in	will gain experience capturing,	can be collected in the form of a	percussion instruments and	to understand that sequences of
	benefits them in wider society.	sequences and the use of logical	editing, and improving photos.	tally chart. They will learn the	digital tools. They will also	commands have an outcome and
	Children will discuss the	reasoning to predict outcomes.	Finally, they will use this	term 'attribute' and use this to	create different rhythms and	make predictions based on their
	responsible use of technology,	They will use given commands in	knowledge to recognise that	help them organise data. They	tunes, using the movement of	learning. They use and modify
	and how they can make smart	different orders to investigate	images they see may not be real.	will then progress onto	animals for inspiration. Learners	designs to create their own quiz
	choices when using it.	how the order affects the		presenting data in different	will share their creations and	questions in ScratchJr and
		outcome. They will also learn		ways and use the data to answer	compare creating music digitally	realise these designs in
	End of unit aim:	about design in programming.	End of unit aim:	questions.	and non-digitally.	ScratchJr using blocks of code.
	By the end of this unit, children	They will develop artwork and				Finally, learners evaluate their
	should be able to recognise the	test it for use in a program. They	By the end of this unit, children	End of unit aim:	End of unit aim:	work and make improvements to
	uses of IT both in and out of	will design algorithms and then	should be able to use digital	By the end of this unit, children	By the end of this unit, children	their programming projects.
	school. Children will be able to	test those algorithms as	devices to take photos and think	should be able to use tally charts	should be able to identify	
	say how and why we must use	programs and debug them.	about the choices they make in	and pictograms to represent	patterns in music. Children will	End of unit aim:
	technology safely.		order to take better photos.	data. Children will answer	experiment with sound using a	By the end of this unit, children
	,	End of unit aim:	Children will use tools to edit	questions based on the data they	computer and will use a computer	should be able to predict the
		By the end of this unit, children	photos and recognise photos that	have collected.	to create music for purpose.	outcome of commands. Children
		should be able to follow and give	have been changed.			will create a program using their
		instructions. Children can predict				own design.
		the outcome of the algorithm.				
		Children can plan and create an				
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	algorithm.					

E-Safety strands run throughout the whole year and we be revisited regularly.