

Computing

	EYFS	Year 1	Year 2
E-Safety and E-Sense	Talk about good and bad choices in real life e.g. taking turns, saying kind things, helping others, telling an adult if something upsets you. Talk about good and bad choices when using websites – being kind, telling a grown up if something upsets us & keeping ourselves safe by keeping information private Knowledge – Understand that we have choices. Understand what choices we have in real life. Understand we have information about ourselves. Know we have to keep information about ourselves private. Skills – Recognise choices when they occur in their lives. Talk about information that is about themselves. Talk about how we keep information private.	 Keep a password private. Explain what personal information is. Know how to tell an adult when something unexpected or worrying is seen online. Explain why it's important to be kind and polite. Recognise an age appropriate website. Agree and follow sensible e-safety rules. Knowledge – Understand what a password is. Understand that a password needs to be kept private. Understand what personal information is. Know to tell an adult if something worrying or unexpected is seen online. Know that it is important to be kind and polite. Know that it is important to be kind and polite. Know there are age appropriate websites. Know that there are e-safety rules. Skills – Know how to keep a password safe Explain how to tell an adult if something is worrying or unexpected is seen online. Explain how to be kind and polite. Explain how to be kind and polite online. I can explain what age appropriate websites are and what they look like. Explain what e-safety rules we have. 	Explain why it is important to keep passwords and personal information private. Describe the things that happen online that I must tell an adult about. Explain why children should go online for a short amount of time. Explain why it is important to be kind and polite online and in real life. Understand that not everyone is who they say they are on the internet. Knowledge – Understand to keep important passwords and personal information private. Understand that things can happen online that I must tell an adult about. Understand that children should only go online for a short amount of time. Understand that not everyone is who they say they are on the internet. Skills – Explain how to keep important passwords and personal information private. Explain what things I need to tell an adult about that happen online. Explain why it is important to be kind and polite online and in real life.

St John's C of E Infant School Knowledge, Skills and Vocabulary Progression Map



Key Vocab	Choices Grown up Website Safe Information Private	Password Personal information Online Offline Website E-safety	Password Personal information Online Offline Internet	
Handling Information	Collect information as photos or sound files. Use a simple pictogram or set of photos to count and organise information. Knowledge – Understand I can collect information Understand I can organise information Skills – Know how to collect information Explain how to organise information	 Discuss the different ways in which information can be shown. Use technology to collect information, including photos, video and sound. Sort different kinds of information and present it to others. Add information to a pictograph and talk about what I have found out. Knowledge – Know there are different ways information can be shown Understand that information can be collected with technology. Know I can sort different ways to collect information Skills – Explain different ways to collect information Sort different kinds of information. Sort different kinds of information to a pictograph and talk about it. 	Discuss different ways in which technology can be used to collect information, including a camera, microscope or sound recorder. Make and save a chart or graph using the data that has been collected. Discuss data that is shown in a chart or graph. Begin to understand a branching database. Explain the types of technology that could be used to help to investigate a question. Knowledge – Know different ways technology can be used to collect information Know what a branching database is. Name different types of technology that can be used to help investigate a question. Skills – Make and save a chart or graph using data that has been collected. Talk about data that us shown in a chart or graph.	
Key Vocab	Information Photos Sound Pictogram Organise	Information Technology Collect Photos Videos Sound Pictograph	investigate a question. Technology Collect Information Chart	Graph Data Database Investigate



are. Know what program can be used to paint. Understand that a keyboard creates text. Know what technology creates what Know what technology creates what	Multimedia	Know what program can be used to paint. Understand that a keyboard creates text. Know what technology creates what media. Skills - Use a mouse to rearrange objects and pictures on a screen. Use a camera or sound recorder to collect photos or sound. Use paint programs to create pictures. Begin to use a keyboard. Develop an interest in ICT by using	Create with different technology tools. Use technology to create and present ideas. Use the keyboard or a word bank to enter text. Save information and open it again. Knowledge – Know technology can be used to create and present ideas. Know a keyboard creates text. Know that information can be saved and opened again. Skills - Create with different technology tools. Use technology to create and present ideas. Use the keyboard or a word bank to enter text. Save information and open it again.	Use the keyboard on a device to add, delete and space text for others to read. Describe an online tool that will help to share ideas with other people.
---	------------	---	--	--

St John's C of E Infant School Knowledge, Skills and Vocabulary Progression Map



	Mawaa	Due aver	Tashualamutasla	Taut	Organias	(mana)	
Key Vocab	Mouse	Program	Technology tools	Text	Organise	Space	
	Screen	Keyboard	Create	Save	Present	Text	
	Text	Website	Present	Open	Keyboard	Save	
	Images		Keyboard		Delete	Retrieve	
Programming	Help adults operat	e equipment	Give simple instructions on	everyday devices to make	Understand what algorithms a	re, how they are implemented	
0 0	around the school	, independently	things happen		as programs on digital devices	and that programs execute by	
	operating simple e	equipment.	Make choices to control sin	nple models or simulations.	following a sequence of instructions.		
	Use simple software to make things happen. Press buttons on a floor robot and		Understand what an algorit	thm is (a sequence of	Use logical reasoning to predict the behaviour of simple programs. Follow and predict the outcome of an program.		
			instructions or set of rules	for performing a specific			
			task) (out of the context of	programming).			
	talk about the mov	vements.	Understand that algorithms	s need to be precise,	Write/input and test a simple a	a program/ code to achieve a	
			simple, clear and limited.		desired outcome (ensuring it is	precise, simple, clear and	
	Explore entions an	d make choices	Understand that an algorith	nm is implemented as	limited)		
	Explore options and make choices with toys, software and websites.		program on a digital device		Identify a bug in a programme/code (where the algorithm has		
	with toys, software	e and websites.	Input simple instructions (in	nto programmable device	gone wrong/not achieved the desired outcome).		
	Knowledge – Know	w that I can use	or coding program) to see v	what happens.	Debug a program (fix it by changing algorithm)		
	simple software to						
	-	make things	Knowledge – Understand e	veryday devices need	Knowledge - Understand what algorithms are, how they are		
	happen.	he huttons of a	instructions to make things	happen.	implemented as programs on digital devices and that		
	Understand that the buttons of a robot make it move. Skills - Help adults operate equipment around the school, independently operating simple equipment. Use simple software to make things		Understand I can make cho	ices to control simple	programs execute by following a sequence of instructions. Know I can use logical reasoning to predict the behaviour of simple programs.		
			models and simulations.				
			Understand what an algorit	thm is (a sequence of			
			instructions or set of rules		I know what a bug is		
			task) (out of the context of	programming).	I know that to fix a bug I have to debug it.		
			Understand that algorithms	s need to be precise,			
			simple, clear and limited.		Skills - Use logical reasoning to predict the behaviour of simple		
	happen.	Te to make timigs	Understand that an algorith	nm is implemented as	programs.		
	Press buttons on a	floor robot and	program on a digital device		Follow and predict the outcom		
	talk about the mov				Write/input and test a simple a program/ code to achieve a		
	Explore options an		Skills - Give simple instructi	ons on everyday devices to	desired outcome (ensuring it is	precise, simple, clear and	
	with toys, software		make things happen		limited)		
	with toys, soltward		Make choices to control sin	•	Identify a bug in a programme	/code (where the algorithm has	
			Understand what an algorit	thm is (a sequence of	gone wrong/not achieved the o	desired outcome).	
			instructions or set of rules		Debug a program (fix it by changing algorithm)		
			task) (out of the context of	programming).			



		Input simple instructions (into programmable device or coding program) to see what happens.			
Key Vocab	Equipment Operate Software Push Buttons Movements	Instructions Devices Control Models	Simulations Algorithm Input	Algorithm Implemented Digital devices Execute Logical reasoning Behaviour Simple programs	Test Code Outcome Identify Bug Debug
Technology in Our Lives	Recognise purposes for using technology in school and at home. Understand that things they create belong to them and can be shared with others using technology. Recognise that they can use the Internet to play and learn. Knowledge – Know that technology can be used at school and at home. Know that things I create belong to me. Know that things I create can be shared with others. Know that I can use the internet to play and learn. Skills - Recognise purposes for using technology in school and at home. Recognise what that they can use on the Internet to play and learn.	Recognise the way we use technology in the classroom. Recognise ways that technology is used at home and in the community. Use links to websites to find information. Begin to identify some of the benefits of using technology. Knowledge - Recognise the way we use technology in the classroom. Recognise ways that technology is used at home and in the community. Know that I can use links to find information. Skills - Use links to websites to find information. Begin to identify some of the benefits of using technology.		we use technology in our home Begin to understand that other information we use. Identify benefits of using techr information, creating and com	r people have created the hology including finding municating. en the internet and things in the and that other people have e. f using technology including nd communicating. hology in the classroom. y in our homes and in the hology including finding municating.
Key Vocab	Created Shared internet	Community Website benefits		Community Created Benefits	Communicating Internet Physical world.



When I am	•	identify technology and the	•	identify technology and the benefits	•	recognise technology in the world around us
computing		uses	•	know how to stay safe online	•	know how to stay safe when online
computing I	•	know how to switch items on	•	know how to behave online	٠	know how to behave online
can	٠	know how to use the internet	•	use the internet to find out information	•	gather information from the internet
		safely	•	use a keyboard to type	•	use a keyboard with increasing speed
	٠	know how to find out	•	create a simple program	•	know what an algorithm is
		information			•	create a simple program and solve a problem in the
	•	program a simple robot				program.