

# Computing

		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 there are age appropriate websites. Know that there are e-safety rules.  Skills — Know how to keep a password safe Explain what information is personal information. Explain how to tell an adult if something is worrying or unexpected is seen online. 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 you need to be kind and polite online and in real life.  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 children should only go online for a short amoun of time.  Explain why it is important to be kind and polite online and in real life.



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



#### Multimedia

Use a mouse to rearrange objects and pictures on a screen.

Recognise text, images and sound when using ICT.

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 age appropriate websites or programs.

Knowledge – Know that a mouse moves objects on the screen.
Know what text, image and sound are.

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 age appropriate websites or

programs.

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 technology to organise and present ideas in different ways.

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.

Save and retrieve files on a device.

Knowledge – Understand that technology can be organised and presented in different ways.

Know a keyboard can add, delete and create spaces of text. Know what keys, delete, add and space text.

Name an online tool that will help to share ideas with other people.

Know that files can be saved and retrieved.

Skills - Use technology to organise and present ideas in different ways.

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.

Save and retrieve files on a device.



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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	Give simple instructions on everyday devices to make		re, how they are implemented		
1108141111118	around the school,	independently	things happen	things happen		as programs on digital devices and that programs execute by		
	operating simple e	quipment.	Make choices to control sir	nple models or simulations.	following a sequence of instructions.  Use logical reasoning to predict the behaviour of simple			
	Use simple softwa	re to make things	Understand what an algori	thm is (a sequence of				
	happen.		instructions or set of rules	for performing a specific	programs.			
	Press buttons on a	floor robot and	task) (out of the context of	programming).	Follow and predict the outcome of an program.			
	talk about the mov	vements.	Understand that algorithm	s need to be precise,	Write/input and test a simple a program/ code to achieve a desired outcome (ensuring it is precise, simple, clear and			
			simple, clear and limited.					
	Fundana antiana an	al	Understand that an algorit	hm is implemented as	limited)			
	Explore options an		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 (i	nto programmable device	gone wrong/not achieved the desired outcome).  Debug a program (fix it by changing algorithm)			
	Ko sood salaa - Ko soo	. 41-41	or coding program) to see	what happens.				
	Knowledge – Know							
	simple software to	make things	Knowledge – Understand everyday devices need instructions to make things happen. Understand I can make choices to control simple		Knowledge - Understand what algorithms are, how they are implemented as programs on digital devices and that programs execute by following a sequence of instructions.			
	happen.	l44						
	Understand that th							
	robot make it mov	e.	models and simulations.		Know I can use logical reasoning to predict the behaviour of simple programs.  I know what a bug is I know that to fix a bug I have to debug it.			
	CLIII II I I I		Understand what an algori	thm is (a sequence of				
	Skills - Help adults	•	instructions or set of rules	for performing a specific				
	equipment around		task) (out of the context of	programming).				
	independently ope	erating simple	Understand that algorithm	s need to be precise,				
	equipment. Use simple software to make things		simple, clear and limited.		Skills - Use logical reasoning to predict the behaviour of simple			
	•	re to make things	Understand that an algorit	hm is implemented as	programs.  Follow and predict the outcome of an program.			
	happen.	flaan nahatan d	program on a digital device	<b>?.</b>				
	Press buttons on a				Write/input and test a simple a			
	talk about the mov		Skills - Give simple instruct	ions on everyday devices to	desired outcome (ensuring it is precise, simple, clear and			
	Explore options an		make things happen		limited)	-		
	with toys, software	e and websites.		nple models or simulations.	Identify a bug in a programme	/code (where the algorithm has		
			Understand what an algori	thm is (a sequence of	gone wrong/not achieved the d			
			instructions or set of rules	for performing a specific	Debug a program (fix it by char	-		
			task) (out of the context of	programming).				



		Input simple instructions (i or coding program) to see	. •		
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.  Knowledge - Recognise the way we use technology in using technology.  Knowledge - Recognise the way we use technology in the classroom. Recognise ways that technology in the classroom. Recognise ways that technology in the classroom. Recognise ways that technology in the classroom. Recognise the way we use technology in the classroom. Recognise ways that technology in the classroom. Recognise the way we use technology in the classroom. Recognise ways that technology in the classroom. Recognise ways that technology in the classroom. Recognise ways that technology.  Knowledge - Recognise the way we use technology in the classroom. Recognise ways that technology in the classroom. Recognise ways that technology.  Knowledge - Recognise ways that technology in the classroom. Recognise ways that technology.  Knowledge - Recognise ways that technology in the classroom. Recognise ways that technology.  Knowledge - Recognise ways that technology in the classroom. Recognise ways that technology i		Explain why we use technology in the classroom. Explain why we use technology in our homes and in the community. Begin to understand that other people have created the information we use.  Identify benefits of using technology including finding information, creating and communicating.  Discuss the differences between the internet and things in the physical world.  Knowledge – Begin to understand that other people have created the information we use.  Know that there are benefits of using technology including finding information, creating and communicating.  Skills - Explain why we use technology in the classroom.  Explain why we use technology in our homes and in the community.  Identify benefits of using technology including finding information, creating and communicating.  Discuss the differences between the internet and things in the physical world.		
Key Vocab Created Shared internet		Community Website benefits		Community Created Benefits	Communicating Internet Physical world.

program a simple robot



When I am	•	identify technology and the	•	identify technology and the benefits	•	recognise technology in the world around us	
computing I	•	uses know how to switch items on		know how to stay safe online know how to behave online	•	know how to stay safe when online know how to behave online	
can	•	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	
	•	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.