





## Personal Responsibility In Delivering Excellence Computing Progression Overview

						Computing	Curriculum Covera	age		
			Nursery	Reception / F2	Yr1	Yr2	Yr3	Yr4	Yr5	Yr6
Statutory NC Content	Skills Content	Computer Science			Understand what algorithms are and how these are implemented as programs on digital devices and understand programs execute by following precise and unambiguous instructions Create and debug simple programs Use logical reasoning to predict the behaviour of simple programs	Understand what algorithms are and how these are implemented as programs on digital devices and understand programs execute by following precise and unambiguous instructions Create and debug simple programs Use logical reasoning to predict the behaviour of simple programs	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 the logical reasoning to explain how some simple algorithms work and to detect and correct errors in algorithms and programs 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	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 the logical reasoning to explain how some simple algorithms work and to detect and correct errors in algorithms and programs 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	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 the logical reasoning to explain how some simple algorithms work and to detect and correct errors in algorithms and programs 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	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 the logical reasoning to explain how some simple algorithms work and to detect and correct errors in algorithms and programs 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

			<b>F</b> 1 1 1 10				
		Explain that an algorithm is a	Explain an algorithm	Can make a real-life situation	Can turn a real-life situation	Make more complex real-life	Can turn a complex -
		set of instructions.	is a set of	into an algorithm for a	into an algorithm, using a	problems into algorithms for a	programming task into an
			instructions to	program.	design that show how to	program.	algorithm.
		Control the nature of events:	complete a task.		accomplish this in code.		
		repeat, loops, single events		Design an algorithm carefully,		Can test and debug programs	Identify the important aspects
		and add and delete features.	Carefully plan an	thinking about its purpose and	Use repetition in a code. For	live during work.	of a programming task
			algorithm so it will	how to turn it into a code.	example, using a loop that	-	(abstraction).
		Make good predictions of	work when		continues until a condition is	Convert (translate) algorithms	(, , , , , , , , , , , , , , , , , , ,
		what is going to happen in a	transferred into a	Can identify an error in their	met such as the correct	that contain sequence	Can decompose important
		program For example where	code	program and fix it	answer being entered	selection and repetition into	aspects of a programming task
		the turtle might go	coue.	program and fix it.	answer being entered.	sode that works	in a logical way identifying
		the turtle might go.	Design e simple	Can identify the difference	Can use timers within a	code that works.	in a logical way, identifying
		March and shakes in summer a	Design a simple	between the effect of a timer		the environment of the start	appropriate coung structures
		work out what is wrong	program using	between the effect of a timer	program, applying these more	Use sequence, selection,	that would work.
		when the steps are out of	2Code that achieves	or repeat command in my code.	accurately to create repetition	reptation and other coding	
		order in instructions.	a purpose.		effects.	structures into a code.	Can test and debug a program
				Know that a variable stores			as they work on it and use
		Say if something is wrong	Find and correct	information while a program is	Can use decision in	Organise codes carefully.	logical methods to identify a
		when the steps are out of	some errors in a	running (executing).	programming.		cause of a bug.
		order in instructions.	program.			Use logical methods to identify	
				Can read programs with several	Use variables within a	the cause of any bug with	Identify a specific line of code
		Try and fix a code if it isn't	Predict what will	steps and predict what it will	program and know how to	support to identify the specific	that is causing a problem in a
		working properly	happen in a	do.	change the value of variables.	line of code.	program and attempt to fix it.
		(debugging).	program.		5		
		1 30 5,		Identify different ways that the	Use the user inputs and	Know the importance of	Can translate algorithms that
		Use key vocabulary to	Spot something in a	internet can be used for	output features in a program.	computer networks and how	include sequence, selection
		demonstrate knowledge and	program that has an	communication		they bein solve problems and	and repetition into a code and
		understanding in this strand:	action or effect	communication.	Identify errors in a code using	enhance communication	nest these structures within
		algorithm instruction order	action of effect.	Lice empile to respond to other	a variaty of mathods, such as	ennance communication.	asch othor
		debug program turn left		ose emails to respond to other	a vallety of methous, such as	Decempion the main departs	each other.
		debug, program, turn, iert,	Use key vocabulary	appropriately and attach mes.	steeping through lines of	Recognise the main dangers	
		right, clockwise,	to demonstrate		codes and fixing them.	that can be perpetuated via	Can use inputs and outputs
		anticlockwise, blocks,	knowledge and	Use logical thinking to solve an		computer networks.	within their coded programs
		sequence, project, repeat,	understanding in this	open-ended problem by	Can read programs that		such as sound, movement and
		repeat forever, invisible,	strand: algorithm,	breaking it up into smaller	contain several steps and	Explain what personal	buttons and represent the
		grow, shrink.	instruction, order,	parts.	predict the outcomes with	information and how to keep it	state of an object.
			debug, program,		increasing accuracy.	safe.	
			turn, left, right,	Write a program, putting			Can interpret a program in
			clockwise,	commands into a sequence to	Recognise the main	Use the most appropriate form	parts and can make logical
			anticlockwise,	achieve a specific outcome.	component parts of hardware	of online communication	attempts to put the separate
			blocks, sequence,		which allow computers to join	according to the digital content.	parts together in an algorithm
			project, repeat,	Use variables to create an	and form a network.		to explain the program.
			repeat forever,	effect, e.g. repetition, if, when,		Follow a sequence of	
			invisible, grow,	loop.	Understand that network and	instructions, e.g. in a flowchart	Can explain the difference
			shrink.		communication. Components	and modify a flowchart using	between the internet and the
			-	Use key vocabulary to	can be found in many	symbols.	World Wide Web.
				demonstrate knowledge and	different devices which allow	.,	
				understanding in this strand	them to join the internet	Lise key vocabulary to	Can explain what WAN and
				decompose decomposing	anem to join the internet.	demonstrate knowledge and	LAN is and describe the
				logical sequence flowchart		understanding in this strand	process of how access to the
				sprite block command		flowchart algorithm control	internet in school is possible
				algorithm answer correct		output symbol start star	internet in school is possible.
				argonium, answer, correct,		delay process desision to a	
				errors, program, algorithm,		ueray, process, decision, loop,	
				instructions, commands,		backdrop, script, block, repeat,	
				forward (fd), left (lt), right (rt),		commentary, sequence,	
				move, turn, clear screen (cs),		consequence, debug, program,	
				variable.		Kodu, world, object, tool	
						palette, program environment,	
						smooth, flatten, raise.	

			Falley, simple and	Free lates the states	Materia - I	Understand shates stick is	Materia and a second second second second	the shot station to fear an
			Follow simple oral	Explain that an	write algorithms for everyday	Understand abstraction is	write more precise algorithms	Use abstraction to focus on
	e e		instructions. (EYFS)	algorithm is a set of	tasks. (Year 2)	focusing on important	for use when programming.	what's important in my design.
	60			instructions. (Year 1)		information. (Year 3)	(Year 4)	(Year 4)
	<b>d</b>		Spot simple patterns, such as		Use logical reasoning to predict			
	<u> </u>		similarities and differences.	Know that an	the outcome of algorithms.	Identify patterns in an	Use simple selection and	Use logical reasoning to
	2		(EYFS)	algorithm written for	(Year 2)	algorithm. (Year 3)	repetition in algorithms. (Year	explain how a variety of
	6		. ,	a computer is called	. ,	5 . ,	4)	algorithms work. (Year 5)
	Ĕ		Sequence simple familiar	a program. (Year 1)	Debug algorithms. (Year 2)	Design a program, create it		с , ,
	L 🗙		tasks. (EYFS)			using this design and evaluate	Use repetition in programs.	Evaluate the effectiveness of
				Work out what is	Understand programs follow	it. (Year 3)	(Year 4)	algorithms. (Year 5)
	0.		Input a simple sequence of	wrong when the	precise instructions. (Year 2)			
			commands to control a	steps are out of		Create a sequence of code.	Use simple selection in	Use a variety of selection
			digital device with support.	order in instructions.	Create programs using different	(Year 3)	programs. (Year 4)	commands in programs. (Year
	5		(EYFS)	(Year 1)	digital devices E.g. Bee Bot or			5)
	<u> </u>				2Code. (Year 2)	Work with different inputs.	Use logical reasoning to	
	a					(Year 3)	systematically detect and	Use conditions in repetition
					Debug programs of increasing		correct errors in programs.	commands. (Year 5)
	i ia				complexity. (Year 2)	Understand that computers in	(Year 4)	
	1					a school are connected in a	. ,	Work with variables. (Year 5)
	Ū.				Use logical reasoning to predict	network and why this is. (Year		
	L 🗙				the outcome of simple	3)		
	1				programs (Vear 2)	-,		
					programs. (Year 2)			

		Falless size also and	Fundate that an also states to a	Multiple allocation and free	Constant allow the set of a set	the shots of a family of	Calua anakiana ku	Marine and the standard for
		Follow simple oral	Explain that an algorithm is a	write algorithms for	Create algorithms for my	Use abstraction to focus on	Solve problems by	write precise algorithms for
		instructions.	set of instructions.	everyday tasks.	programming projects.	what's important in my	decomposing them into smaller	use when programming.
		<b>.</b>				design.	parts.	
		Spot simple patterns, such as	Know that an algorithm	Use logical reasoning	Decompose projects (such as			Decompose a design or code
		similarities and differences.	written for a computer is	to predict the	an animation) into steps to	Write more precise algorithms	Use selection in algorithms.	to focus on specific parts.
			called a program.	outcome of	create	for use when programming.		
		Sequence simple familiar		algorithms.	an algorithm.		Use logical reasoning to explain	Use abstraction to hide
		tasks.	Work out what is wrong			Use simple selection and	how a variety of algorithms	complexity in my design or
			when the steps are out of	Understand	Understand abstraction is	repetition in algorithms.	work.	code.
		Use a mouse, touch screen or	order in instructions.	decomposition is	focusing on important			
		appropriate access device to		breaking	information.	Use logical reasoning to	Evaluate the effectiveness of	Recognise and make use of
		target	Say if something does not	objects/processes		detect and correct errors in	algorithms.	patterns in my design and
		and select options on screen.	work that it is because the	down.	Identify patterns in an	programs.		code.
			code is incorrect.		algorithm.		Create programs by	
		Input a simple sequence of		Debug algorithms.		Use repetition in programs.	decomposing them into smaller	Critically evaluate my work and
		commands to control a	Try and fix code if it isn't		Design a program, create it		parts.	suggest improvements.
	e	digital device with support.	working properly.	Understand	using this design and evaluate	Use simple selection in		
	ğ			programs follow	it.	programs.	Use a variety of selection	Use a range of sequence,
	ē		Make good guesses of what	precise instructions.			commands in programs.	selection and repletion
	5		is going to happen in a		Create a sequence of code.	Work with different outputs.		commands to implement
	S S		program.	Create programs			Use conditions in repetition	my design.
	ğ			using different digital	Work with different inputs.	Use logical reasoning to	commands.	
	2			devices E.g. Bee Bot		systematically detect and		Identify the need for, and work
	3			or 2Code.	Understand that computers in a school are connected in a	correct errors in programs.	Work with variables.	with variables.
	e			Debug programs of	network and why this is.	Understand that servers on	Create programs that control or	Create procedures to hide
	Z			increasing	-	the Internet are located	simulate physical systems.	complexity in programs.
	_			complexity.	Understand the difference	across the planet.		
					between the Internet and the		Evaluate my work and identify	Identify and write generic code
				Use logical reasoning	World Wide Web	Understand how email is sent	errors.	for use across multiple
				to predict the	(WWW).	across the Internet		projects.
				outcome of simple			Understand how we view web	
				programs.		Understand how the Internet	pages on the Internet.	Critically evaluate my work and
						enables us to collaborate.		suggest improvements.
							Use search technologies	
							effectively.	Understand what HTML is and
								recognize HTML tags.
							Understand that web spiders	
							index the web for search	Know a range of HTML tags
							engines.	and can remix a web page.
							Appreciate how pages are	Create a webpage using HTML.
							ranked in a search engine.	
			Purple Mash 2Code	Purple Mash 2Code	Purple Mash 2Code	Purple Mash 2Code	Purple Mash 2Code	Purple Mash 2Code
	S							
	đ		Purple Mash 2Go	Beebot,	Purple Mash 2Email	Purple Mash Logo	Purple Mash 2DIY 3D	Beebot
	d /							
	4		Beebot		Beebot	Beebot	Beebot	
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	2	heads of schools to decide on		to create, organise, store,	purposefully to	variety of software (including	effectively, appreciate how	effectively, appreciate how	effectively, appreciate how
	80	the implementation for		manipulate and retrieve	create, organise.	internet services) on a range of	results are selected and	results are selected and ranked	results are selected and ranked
	0	nursery.		digital content	store manipulate	digital devices to design and	ranked and be discerning in	and he discerning in evaluating	and be discerning in evaluating
	0			8	and retrieve digital	create a range of programs	evaluating digital content	digital content	digital content
	<b>_</b>				content	systems and content that	evaluating algreat content	algital content	algital content
	<del>К</del>				content	accomplish given goals	Select use and combine a	Select use and combine a	Select, use and combine a
	Ŭa					including collecting and	variety of software (including	variety of software (including	variety of software (including
	۳ ۲					analysing, evoluating and	internet convises) on a range	internet convises) on a range of	internet services) on a range of
						analysing, evaluating and	internet services) on a range	internet services) on a range of	internet services) on a range of
	2					presenting data and	of digital devices to design	digital devices to design and	digital devices to design and
						information.	and create a range of	create a range of programs,	create a range of programs,
	at						programs, systems and	systems and content that	systems and content that
	č						content that accomplish given	accomplish given goals,	accomplish given goals,
	E						goals, including collecting and	including collecting and	including collecting and
	ō						analysing, evaluating and	analysing, evaluating and	analysing, evaluating and
	lf.						presenting data and	presenting data and	presenting data and
	<u> </u>						information.	information.	information.
				Contraction to the second	Orregion data fan	Company to complete to find		Course and the state of the sta	
			-	Sort content into sound,	Organise data – for	Carry out searches to find	Understand the purpose of a	Search precisely when using a	Use filters when searching for
				pictures and text.	example, using a	digital content on a range of	search engine and the main	search engine. For example,	digital content.
					database.	online systems, such	features within it.	knowing you can add additional	
				Add sound, pictures and text		as an internet search engine.		words or removes words to	Explain in detail now accurate
				to a program.	Find data using		Look at information on a	help find better results.	and reliable a webpage and its
					specific searches.	Collect data and input it into	webpage and make		content are.
				Change content on a file such		software.	predictions about the	Explain in detail how accurate,	
				as text, sound and images.	Use several		accuracy of information	safe and reliable the content is	Compare a range of digital
					programs to organise	Analyse data using features	contained within it.	on a webpage.	content sources and rate them
				Name digital content/files.	information – for	within software to help such as,			in terms of content
					example, using	formula in spreadsheets.	Create and improve solutions	Make appropriate	quality and accuracy.
				Save digital content/files.	databases or		to a problem based on	improvements	
					spreadsheets.	Present data and information	feedback. For example, create	to digital work created.	Consider the intended
				Find digital content/files		using different software such as	a program using a coding app.		audience carefully when
				already created.	Edit digital data such	branching database or		Comment on how successful a	designing and making digital
					as data in music	spreadsheet graphing	Review solutions that others	digital solution is to digital work	Content.
					composition	functionality.	have created, using a checklist	created. For example, a	
					Software.		of criteria.	program built in a coding app	Design and create online blogs.
						Consider what the most		that has a specific purpose.	
					Name, save and find	appropriate software to use	Work collaboratively to create		
					digital content/files.	when given a task.	content and solutions.	Work collaboratively with	Use criteria to evaluate the
								others creating solutions to	quality of own and others
					Include photos, text	Create purposeful (appropriate)	Share digital content using a	problems using appropriate	digital solutions, suggesting
					and sound in digital	content and attach this to	variety of applications such as:	software such as a coding app.	refinements.
					content.	emails.	blogging sites, email apps and		
							website notice boards.	Use collaborative modes	
								within a digital concept	
								mapping app to work with	
								others and share pictures,	
								sounds, notes and hyperlinks.	

	Retrieval of prior knowledge (Word Processing / Typing)		Play on a touch screen game and use computers/keyboards/ Mouse in role play. (EYFS) Type letters with increasing confidence using a keyboard and tablet. (EYFS) Dictate short, clear sentences into a digital device. (EYFS)	Confidently type words quickly and correctly on a digital device. (Year 1) Use the space bar to make space and delete to delete letters/words. (Year 1) Dictate into a digital device mostly accurately and with punctuation. (Year 1)	Confidently type words quickly and correctly on a digital device. (Year 1) Copy and paste images and text. (Year 2) Add images alongside text in a word-processed document. (Year 2)	Edit the style and effect of my text and images to make my document more engaging and eye-catching. For example, borders and shadows. (Year 3) Use cut, copy and paste to quickly duplicate and organise text. (Year 3)	Combine digital images from different sources, objects, and text to make a final piece of a variety of tasks: posters, documents, eBooks, scripts, leaflets. <b>(Year 4)</b>	Organise and reorganise text on screen to suit a purpose. (Year 5)
	New Knowledge (Word Processing/Typing)	Play on a touch screen game and use computers/keyboards/ Mouse in role play. Type letters with increasing confidence using a keyboard and tablet. Dictate short, clear sentences into a digital device.	Confidently type words quickly and correctly on a digital device. Use the space bar to make space and delete to delete letters/words. Make a new line using enter/return. Dictate into a digital device mostly accurately and with punctuation.	Use the space bar only once between words and use touch or a mouse to navigate to words and letters to edit. Copy and paste images and text. Use caps locks for capital letters. Add images alongside text in a word-processed document. Dictate longer passages into a digital device with accurate punctuation.	Use index fingers on keyboard home keys (f/j), use left fingers for a/s/d/f/g, and use right fingers for h/j/k/l. Edit the style and effect of my text and images to make my document more engaging and eye-catching. For example, borders and shadows. Use cut, copy and paste to quickly duplicate and organise text.	Combine digital images from different sources, objects, and text to make a final piece of a variety of tasks: posters, documents, eBooks, scripts, leaflets. Confidently and regularly use text shortcuts such as cut, copy and paste and delete to organise text. Use font sizes appropriately for audience and purpose. Use spell check and thesaurus including through voice recognised technology.	Start to apply other useful effects to my documents such as hyperlinks. Import sounds to accompany and enhance the text in my document. Organise and reorganise text on screen to suit a purpose.	Confidently choose the best application to demonstrate my learning. Format text to suit a purpose. Publish my documents online regularly and discuss the audience and purpose of my content.
	Retrieval of prior knowledge (Data Handling)		Identify a chart. <b>(EYFS)</b> Sort physical objects, take a picture and discuss what I have done. <b>(EYFS)</b> Present simple data on a digital device. <b>(EYFS)</b>	Sort images or text into two or more categories on a digital device. (Year 1) Collect data on a topic. (Year 1) Create a tally chart and pictogram. (Year 1) Orally explain what I have done. (Year 1)	Sort digital objects into a range of charts such as Venn diagrams, Carroll diagrams and bar charts using different apps and software. (Year 2)	Start to input simple data into a spreadsheet. <b>(Year 3)</b>	Create my own online multiple-choice questionnaire. (Year 4) Input data into a spreadsheet and export the data in a variety of ways: charts, bar charts, pie charts. (Year 4)	Create and publish my own online questionnaire and analyse the results. Use simple formulae to solve calculations including =sum and other statistical functions. (Year 5) Edit and format difference cells in a spreadsheet. (Year 5)

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New Knowledge (Data Handling)	Identify a chart. Sort physical objects, take a picture and discuss what I have done. Present simple data on a digital device.	Sort images or text into two or more categories on a digital device. Collect data on a topic. Create a tally chart and pictogram. Orally explain what I have done.	Sort digital objects into a range of charts such as Venn diagrams, Carroll diagrams and bar charts using different apps and software. Record myself explaining what I have done and what the data shows me. Create a branching database using questions.	Create my own sorting diagram and complete a data handling activity with it using images and text. Start to input simple data into a spreadsheet. Create a feelings chart exploring a story or character's feelings.	Create my own online multiple-choice questionnaire. Input data into a spreadsheet and export the data in a variety of ways: charts, bar charts, pie charts. Understand how data is collected.	Create and publish my own online questionnaire and analyse the results. Use simple formulae to solve calculations including =sum and other statistical functions. Edit and format difference cells in a spreadsheet.	Write spreadsheet formula to solve more challenging maths problems. Create and publish my own online quiz with a range of media (images and video)
Retrieval of Prior Knowledge (Presentations, web design and eBooks)		Record my voice over a picture. (EYFS) Create a simple digital collage. (EYFS)	Add labels to an image. (Year 1) Order images to create a simple storyboard. (Year 1) Sequence a series of pictures to explain my understanding of a topic. (Year 1)	Add labels to an image. (Year 1) Add voice labels to an image. (Year 2) Add a voice recording to a storyboard. (Year 2) Import images to a project from the web and camera roll. (Year 2)	Create an interactive comic with sounds, formatted text and video. (Year 3) Create a simple digital timeline/mindmap. (Year 3)	Create a simple web page. (Year 3) Create an interactive quiz eBook introducing hyperlinks. (Year 4) Create an eBook with text, images, and sound. (Year 4) Create a presentation demonstrating my understanding with a range of media. (Year 4)	Collaborate with peers using online tools, e.g. blogs, (Year 5) Create and export an interactive presentation including a variety of media, animations, transitions, and other effects. (Year 5) Create an interactive guide to an image by embedding digital content and publishing it online. (Year 5) Create a webpage and embed video. (Year 5)
New Knowledge (Presentations, web design and eBooks)	Record my voice over a picture. Create a simple digital collage. Move and resize images with my fingers or mouse.	Add labels to an image. Order images to create a simple storyboard. Create a simple spider diagram. Sequence a series of pictures to explain my understanding of a topic.	Add voice labels to an image. Add a voice recording to a storyboard. Add speech bubbles to an image to show what a character thinks. Import images to a project from the web and camera roll.	Create an interactive comic with sounds, formatted text and video. Annotate an image with videos. Create a simple web page. Create a simple digital timeline/mindmap.	Create an interactive quiz eBook introducing hyperlinks. Create an eBook with text, images, and sound. Create a presentation demonstrating my understanding with a range of media. Create a digital timeline/mindmap and include different media – sound and video.	Collaborate with peers using online tools, e.g. blogs+ Create and export an interactive presentation including a variety of media, animations, transitions, and other effects. Create an interactive guide to an image by embedding digital content and publishing it online. Create a webpage and embed video.	Create a web site which includes a variety of media. Design an app prototype that links multimedia pages together with hyperlinks. Choose applications to communicate to a specific audience. Evaluate my own content and consider ways to improvements.

	Retrieval of Prior Knowledge (Animation)		Animate a simple image to speak in role. (EYFS) Create a simple animation to tell a story including more than one character. (EYFS)	Add filters and stickers to enhance an animation of a character. (Year 1) Create an animation to tell a story with more than one scene. (Year 1) Add my own pictures to my story animation. (Year 1)	Create multiple animations of an image and edit these together. <b>(Year 2)</b> Create a simple stop motion animation. <b>(Year 2)</b>	Create animations of faces to speak in role with more life- like realistic outcomes. (Year 3) Use animation tools in presenting software to create simple animations. (Year 3)	Take multiple animations of a character I have created and edit them together for a longer video. (Year 4)	Record animations of different characters and edit them together to create an interview. (Year 5) Create flip book animation using digital drawings and export as a Gif or video. (Year 5)
	New Knowledge (Animation)	Animate a simple image to speak in role. Create a simple animation to tell a story including more than one character.	Add filters and stickers to enhance an animation of a character. Create an animation to tell a story with more than one scene. Add my own pictures to my story animation.	Create multiple animations of an image and edit these together. Create a simple stop motion animation. Explain how an animation/flip book works.	Create animations of faces to speak in role with more life-like realistic outcomes. Improve stop motion animation clips with techniques like onion skinning. Use animation tools in presenting software to create simple animations.	Take multiple animations of a character I have created and edit them together for a longer video. Use software to create a 3D animated story. Use line draw tool to create animations.	Record animations of different characters and edit them together to create an interview. Create flip book animation using digital drawings and export as a Gif or video.	Mix animations and videos recordings of myself to create video interviews. Plan, script and create a 3D animation to explain a concept or tell a story. Choose and create different types of animations to best explain my learning.
	Retrieval of Prior Knowledge (Photography and Digital Art)		Take a photograph and use it in an app. <b>(EYFS)</b> Use a painting app and explore the paint and brush tools. <b>(EYFS)</b>	Edit a photo with simple tools (e.g. lighten/darken). (Year 1) Use a paint/drawing app to create a digital image. (Year 1) Begin to cut out an image to layer on another image. (Year 1)	Edit a photo (crop, filters, mark up etc). <b>(Year 2)</b> Select and use tools to create digital imagery - controlling the pen and using the fill tool. <b>(Year</b> <b>2)</b>	Confidently take and manipulate photos. <b>(Year 3)</b> Create a digital image using a range of tools, pens, brushes and effects. <b>(Year 3)</b>	Enhance digital images and photographs using crop and brightness tools. <b>(Year 4)</b>	Enhance digital images and photographs using contrast and resize tools. (Year 5) Link and explain how to photoshop images and how this is used in the media. (Year 5)
	New Knowledge (Photography and Digital Art)	Know the difference between a photograph and video. Take a photograph. Take a photograph and use it in an app. Use a painting app and explore the paint and brush tools.	Edit a photo with simple tools (e.g. lighten/darken). Use a paint/drawing app to create a digital image. Begin to cut out an image to layer on another image.	Edit a photo (crop, filters, mark up etc). Select and use tools to create digital imagery - controlling the pen and using the fill tool. Cut images with accuracy to layer on other images.	Confidently take and manipulate photos. Create a digital image using a range of tools, pens, brushes and effects.	Enhance digital images and photographs using crop and brightness. Manipulate shapes to create digital art. Draw a series of images and export as an animated GIF	Enhance digital images and photographs using contrast and resize tools. Link and explain how to photoshop images and how this is used in the media.	Edit a picture to remove items, add backgrounds, merge two photos. Evaluate and discuss images explaining effects and filters that have been used to enhance the media. Use a 3D drawing app to create a realistic representation of world Objects.
	Retrieval of Prior Knowledge (Sound)		Record sounds with different resources. (EYFS) Find ways to change your voice (tube, tin can, shouting to create an echo). (EYFS) Record sounds/voices in storytelling and explanations. (EYFS)	Create a sequence of sounds (instruments, apps/software). (Year 1) Record my voice and add different effects. (Year 1)	Create a musical composition using software. <b>(Year 2)</b>	Create and edit purposeful compositions using music software to create mood or a certain style. <b>(Year 3)</b> Experiment with live loops to create a song. <b>(Year 3)</b>	Edit sound effects for a purpose. <b>(Year 4)</b> Create a simple four chord song following the correct rhythm. <b>(Year 4)</b>	Add voice over to clips (volume, pitch, fade, effect) to create a podcast. <b>(Year 5)</b> Create a remix of a popular song. <b>(Year 5)</b>

	New Knowledge (Sound)	Record sounds with different resources. Find ways to change your voice (tube, tin can, shouting to create an echo). Record sounds/voices in storytelling and explanations.	Create a sequence of sounds (instruments, apps/software). Explore short and long sounds. Record my voice and add different effects.	Create a musical composition using software. Record my own sound effects. Record my voice over a composition to parfer a comp	Create and edit purposeful compositions using music software to create mood or a certain style. Experiment with live loops to create a song.	Edit sound effects for a purpose. Create a simple four chord song following the correct rhythm. Record a radio broadcast or audiobook.	Add voice over to clips (volume, pitch, fade, effect) to create a podcast. Create a remix of a popular song.	Edit sound clips (volume, pitch, fade, effect) to use in a film or radio broadcast (podcast). Compose a soundtrack that can be added to a film project.
	Digital Literacy		Recognise common use of information technology beyond school Use technology safety 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	Recognise common use of information technology beyond school Use technology safety 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 safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; Identify a range of ways to report concerns about content and contact.	Use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; Identify a range of ways to report concerns about content and contact.	Use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; Identify a range of ways to report concerns about content and contact.	Use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; Identify a range of ways to report concerns about content and contact.

			Say what technology is.	Find information	Create a secure password.	Have a good understanding of	Have a secure knowledge of	Can demonstrate safe and
				needed using a		the online safety rules we	online safety rules taught at	respectful use of a range of
			Say what examples of	search engine.	Explain the importance of	learn at school.	school.	different technologies and
			technology are in school	5	having a secure password and			online services
			teennology are in school.	Ka avaith a	naving a secure password and	Demonstrate have to use	Demonstrate the sets and	onine services.
				Know the	not sharing it with others.	Demonstrate now to use	Demonstrate the safe and	
			Say what examples of	consequences of not		different online technologies	respectful use of different	Can identify more discrete
			technology are at home.,	searching online	Explain the negative	safely.	online technologies and online	inappropriate behaviours
				safely.	consequences of not keeping		services.	online. For example, someone
			Keen login information safe		nasswords safe and secure	Understand that they have a		who may be trying to groom
			keep login information sale.		passwords sale and secure.	childerstand that they have a		who may be trying to groom
				Share work and		right to privacy both on and	Always relate appropriate	me or someone else.
			Save work in a safe place	communicate	Understand the importance of	offline.	online behaviour to their right	
			such as a 'my work' folder.	electronically.	keeping safe online and		to have personal privacy.	Can use critical thinking to help
					hehaving respectfully	Recognise that their wellbeing		stav safo onlino
			Recognise age-appropriate	Report upkind	,-	can be affected by how Luse	Know how to not let their	stay sale onnie.
			Necoginise age-appropriate	Report unkind		can be anected by now ruse	Know now to not let their	
			websites.	behaviour and things	Use communication tools	technology.	mental wellbeing or others be	To know the value of
				that upset me	respectfully and use good		affected by use of online	protecting their privacy and
			Seek help from an adult	online, to a trusted	etiquette.	Report with ease any	technologies and services.	protecting their privacy and
			when they see something	adult		concerns with content and	Ū.	others online.
			that is unovported or	adart.	Report upaccontable content	contact online and how	Toll you about convright and	
	1				Report unacceptable content	contact online and now	ren you about copyright and	Talk about the way search
	1		worrying.	See where	and content online in more	immediate strategies to keep	acknowledge the sources of	results are calented and
	1			technology is used at	than one way to a trusted	safe.	information.	results are selected and
			Use key vocabulary to	school such as in the	adult.			ranked.
	1		demonstrate knowledge and	office or canteen			Use strategies to check the	
			understanding in this strand	office of cancern.	Liss kou useshulani te		reliability of information (areas	Check the reliability of a
			understanding in this strand.		Use key vocabulary to		reliability of information (cross-	check the reliability of a
			safe, meet, accept, reliable,	Understand that	demonstrate knowledge and		check with another source such	website, including the photos.
			tell, online, trusted, adult,	creations such as	understanding in this strand:		as books).	
			information, safety, personal,	programs in 2Code.	filter, Google, search engine.			
			key question tell safe	need similar skills to	image keyboard email		Use key vocabulary to	
			share stranger danger	the adult world	subject address communicate		domonstrate knowledge and	
			snare, stranger, danger,	the adult world.	subject, address, communicate,		demonstrate knowledge and	
			internet.		sender, safe, secure, internet,		understanding in this strand:	
					world wide web, social media.		world wide web, search, search	
							engine, advanced search.	
							results Google browser terms	
							results, Google, browser, terms	
					Reflect on their own digital		of use, bias, authority, citation,	
					footprint and behaviour online.		plagiarism, source, website,	
							secure, https, site, domain,	
					Identify what is appropriate		website, browser, address bar.	
					and inappropriate behaviour on		nebsite, bronser, address barr	
					the internet, recognising the		Judge what sort of privacy	
					term cyberbullying.		settings might be relevant to	
							reducing different risks.	
					Seek help from an adult when		-	
	1				they see something that is		Seek help from an adult when	
					they see something that is		the second promanadule when	
	1				unexpected or worrying.		they see something that is	
	1						unexpected or worrying.	
					Demonstrate understanding of			
					age-appropriate websites and		Discuss scenarios involving	
					adverts		online risk	
					auverts.		onnine fisk.	
	1				Use key vocabulary to		Use key vocabulary to	
					demonstrate knowledge and		demonstrate knowledge and	
					understanding in this strand		understanding in this strand	
	1				safe meet accent reliable tell		snam link privacy virus scam	
					salias trusted adult		spann, mix, privacy, virus, scalli,	
					online, trusted, adult,		phisning, inbox, junk, sender,	
					information, safety, personal,		subject, secure, safe, account,	
	1				internet, world wide web,		online, private, social media,	
					communicate, message, social		adverts, cyberbullying,	
					media email password		reporting aponymous victim	
					meula, email, passworu,		reporting, anonymous, victim,	
	1				cyberbullying/bullying,		fraud/fraudulent, policy,	
					plagiarism, profiles, account,		private/personal.	
	1				private, public.			

			L know what is	Linew how to offectively	Linou hou to domonst	Lineur heur te evelere ke::	Libour a socura knowladsf
			I KNOW WHAT IS	I KNOW NOW TO Effectively	I know now to demonstrate	I KNOW NOW TO EXPLORE KEY	I have a secure knowledge of
			meant by technology	retrieve relevant, purposeful	the importance of having a	concepts relating to online	common online safety rules.
			(Year 1).	digital content using a search	secure password and not	safety using concept mapping.	(Year 5)
				engine. (Year 2)	sharing this with anyone else.	(Year 4)	
			I know a variety of		(Year 3)	I know how to help others to	
	0		examples of	I know how to apply learning of		understand the importance of	I know how to apply online
	50		technology both in	effective searching beyond the	I know how to explain the	online safety. (Year 4)	sefety rules by demonstrating
	ö		and out of	classroom, and I know how to	negative implications of	· · · · · · , ( · · · ,	salety rules by demonstrating
	Ō		school (Year 1).	share this knowledge (Vear 2)	failure to keep passwords safe	Lknow a range of ways of	the safe and respectful use of
	5		. ,	share this knowledge. (Teal 2)	and secure. (Year 3)	reporting inconstant	a few different technologies
	2		I know that I should		· · · · · · · · · · · · · · · · · · ·	reporting inappropriate content	and online services. (Year 5)
	ğ		keep information.	I know how to make links		and contact. (rear 4)	
	2		such as usernames	between technology I see	I know the importance of		I know how to relate
	<u>.</u>		and passwords	around me, coding and	staving cafe and the		appropriate online behaviour
	ō		private and actively	multimedia work we do in	staying sale and the		to my right to personal privacy
	. <u>–</u>		domonstrate this in	school. (Year 2)	Importance of my conduct		and mental wellbeing (Vear 5)
	ā		lessens (Veer 1)		when using familiar		and mental wendering. (rear 5)
	<u> </u>		lessons (fear 1).	I know the implications of	communication tools. (Year 3)		
	ō			I know the implications of	I know more than one way to		
	_		I know how to save	inappropriate online searches.	report unacceptable content		
	ŋ		work in	(Year 2)	and contact. (Year 3)		
	2		A private space (Year				
	ie.		1).	I know how documents and			
	7			information are shared			
	ē			alastropically (Voor 3)			
	8			electronically. (redi 2)			
				I know how to use programs			
				such as email safely and know			
				ways of reporting inappropriate			
				behaviours and content to a			
				trusted adult. (Year 2)			

			I know what is meant by technology.	I know how to effectively retrieve	I know how to demonstrate the importance of having a secure	I know how to explore key concepts relating to online	I have a secure knowledge of common online safety rules.	I know how to demonstrate the safe and respectful use of
			I know a variety of	relevant, purposeful digital content using a search engine.	password and not sharing this with anyone else.	safety using concept mapping. I know how to help others to understand the importance of		a range of different technologies and online services.
			in and out of school.	I know how to apply learning of effective	I know how to explain the negative implications of failure to keep passwords safe and	online safety.	I know how to apply online safety rules by demonstrating the safe and respectful use of a	I know how to identify more discreet inappropriate
			I know that I should keep information, such as usernames and passwords,	searching beyond the classroom, and I know how to share	secure.	reporting inappropriate content and contact.	few different technologies and online services.	critical thinking.
			private and actively demonstrate this in lessons.	this knowledge.	I know the importance of staying safe and the importance of my conduct		I know how to relate appropriate online behaviour to my right to personal privacy	value in preserving privacy when online for my own and
	a		I know how to save work in A private space.	links between technology I see	when using familiar communication tools. I know more than one way to		and mental wellbeing.	other people's safety.
	ledg			around me, coding and multimedia work we do in	report unacceptable content and contact.			
	wou			school. I know the				
	ew k			implications of inappropriate online searches.				
	Z			I know how documents and				
				information are shared electronically.				
				I know how to use programs such as email safely and				
				know ways of reporting				
				inappropriate behaviours and content to a trusted				
				adult.				

<u>Year</u> <u>Group</u>	<u>Autumn</u> <u>1</u>	<u>Autumn 2</u>	<u>Spring 1</u>	<u>Spring 2</u>	<u>Summer 1</u>	<u>Summer 2</u>
<u>Year 1</u>	<b>1.1</b> Online safety	<b>1.3</b> Pictograms	<b>1.5</b> Maze Explorers	<b>1.7</b> Coding	<b>1.8</b> Spreadsheets	<b>1.9</b> Tech outside school
Year 2	<b>2.1</b> Coding	<b>2.2</b> Online safety	<b>2.3</b> Spreadsheets	<b>2.5</b> Effective searching	<b>2.7</b> Making music	<b>2.8</b> Presenting ideas
<u>Year 3</u>	<b>3.1</b> Coding	<b>3.2</b> Online safety	<b>3.3</b> Spreadsheets	<b>3.5</b> Email	<b>3.8</b> Graphing	<b>3.9</b> Presenting (PowerPoint)
<u>Year 4</u>	<b>4.1</b> Coding	<b>4.2</b> Online safety	<b>4.3</b> Spreadsheets	<b>4.5</b> Logo	<b>4.6</b> Animations	<b>4.7</b> Effective searching
<u>Year 5</u>	<b>5.1</b> Coding	<b>5.2</b> Online safety	<b>5.3</b> Spreadsheets	<b>5.4</b> Databases	<b>5.5</b> Game creator	<b>5.9</b> Using external devices
<u>Year 6</u>	<b>6.1</b> Coding	<b>6.2</b> Online safety	<b>6.4</b> Blogging	<b>6.6</b> Networks	<b>6.7</b> Quizzing	<b>6.9</b> Excel spreadsheets