





Personal Responsibility In Delivering Excellence Computing Progression Overview

				Computing Curriculum Coverage									
			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			

		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.				code that works.	in a logical way, identifying
			Design a simple	Can identify the difference	Can use timers within a		appropriate coding 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	
		The sead for a set of the la	Due distante de la 10	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.		the decision in the second	Karawaka ing atau atau at	
				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 help solve problems and	and repetition into a code and
		understanding in this strand:	action or effect.		Identify errors in a code using	enhance communication.	nest these structures within
		algorithm, instruction, order,		Use emails to respond to other	a variety of methods, such as		each other.
		debug, program, turn, left,	Use key vocabulary	appropriately and attach files.	steeping through lines of	Recognise the main dangers	Concerns increased and and an
		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	Constant and support that	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, instruction, order,	breaking it up into smaller	contain several steps and	Explain what personal information and how to keep it	buttons and represent the state of an object.
		grow, shrink.		parts.	predict the outcomes with	safe.	state of an object.
			debug, program,		increasing accuracy.	sate.	Constitution of a second second second
			turn, left, right,	Write a program, putting	December the main	Use the most survey sists from	Can interpret a program in
			clockwise, anticlockwise,	commands into a sequence to achieve a specific outcome.	Recognise the main component parts of hardware	Use the most appropriate form of online communication	parts and can make logical
				achieve a specific outcome.			attempts to put the separate
			blocks, sequence,	Lico variables to create an	which allow computers to join and form a network.	according to the digital content.	parts together in an algorithm
			project, repeat, repeat forever,	Use variables to create an	and form a network.	Follow a sequence of	to explain the program.
			invisible, grow,	effect, e.g. repetition, if, when, loop.	Understand that network and	instructions, e.g. in a flowchart	Can explain the difference
			shrink.	100p.	communication. Components	and modify a flowchart using	between the internet and the
			Junit.	Use key vocabulary to	can be found in many	symbols.	World Wide Web.
				demonstrate knowledge and	different devices which allow	symbols.	wond while web.
				understanding in this strand:	them to join the internet.	Use key vocabulary to	Can explain what WAN and
				decompose, decomposing,	them 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, stop,	internet in school is possible.
						delay, process, decision, loop,	
				errors, program, algorithm, instructions, commands,		backdrop, script, block, repeat,	
				forward (fd), left (lt), right (rt),			
				move, turn, clear screen (cs),		commentary, sequence, consequence, debug, program,	
				variable.		Kodu, world, object, tool	
						palette, program environment,	
						smooth, flatten, raise.	

	ge	Follow simple oral instructions. (EVFS)	Explain that an algorithm is a set of instructions. (Year 1)	Write algorithms for everyday tasks. (Year 2)	Understand abstraction is focusing on important information. (Year 3)	Write more precise algorithms for use when programming. (Year 4)	Use abstraction to focus on what's important in my design. (Year 4)
	owled	Spot simple patterns, such as similarities and differences. (EYFS)	Know that an algorithm written for a computer is called	Use logical reasoning to predict the outcome of algorithms. (Year 2)	Identify patterns in an algorithm. (Year 3)	Use simple selection and repetition in algorithms. (Year 4)	Use logical reasoning to explain how a variety of algorithms work. (Year 5)
	or kn	Sequence simple familiar tasks. (EYFS) Input a simple sequence of	a program. (Year 1) Work out what is wrong when the	Debug algorithms. (Year 2) Understand programs follow precise instructions. (Year 2)	Design a program, create it using this design and evaluate it. (Year 3)	Use repetition in programs. (Year 4)	Evaluate the effectiveness of algorithms. (Year 5)
	of pri	commands to control a digital device with support. (EYFS)	steps are out of order in instructions. (Year 1)	Create programs using different digital devices E.g. Bee Bot or	Create a sequence of code. (Year 3)	Use simple selection in programs. (Year 4)	Use a variety of selection commands in programs. (Year 5)
	ieval			2Code. (Year 2) Debug programs of increasing complexity. (Year 2)	Work with different inputs. (Year 3) Understand that computers in	Use logical reasoning to systematically detect and correct errors in programs. (Year 4)	Use conditions in repetition commands. (Year 5)
	Retr			Use logical reasoning to predict the outcome of simple programs. (Year 2)	a school are connected in a network and why this is. (Year 3)		Work with variables. (Year 5)

		1			1		
	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.
					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 called a program.	to predict the outcome of	an animation) into steps to create	Write more precise algorithms for use when programming.	Use selection in algorithms.	to focus on specific parts.
	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	-	
8			programs follow	it.	programs.	Use a variety of selection	Use a range of sequence,
- Se		Make good guesses of what	precise instructions.			commands in programs.	selection and repletion
16		is going to happen in a		Create a sequence of code.	Work with different outputs.		commands to implement
3		program.	Create programs			Use conditions in repetition	my design.
Knowledge			using different digital	Work with different inputs.	Use logical reasoning to	commands.	
, L			devices E.g. Bee Bot		systematically detect and		Identify the need for, and work
New K			or 2Code.	Understand that computers in a school are connected in a	correct errors in programs.	Work with variables.	with variables.
ē			Debug programs of	network and why this is.	Understand that servers on	Create programs that control or	Create procedures to hide
Ž			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 enables us to collaborate.	pages on the Internet.	Critically evaluate my work and suggest improvements.
						Use search technologies	
						effectively.	Understand what HTML is and
							recognize HTML tags.
						Understand that web spiders	5 5
						index the web for search	Know a range of HTML tags
						engines.	and can remix a web page.
						0	
						Appreciate how pages are ranked in a search engine.	Create a webpage using HTML.
		Purple Mash 2Code	Purple Mash 2Code	Purple Mash 2Code	Purple Mash 2Code	Purple Mash 2Code	Purple Mash 2Code
Apps		Purple Mash 2Go	Beebot,	Purple Mash 2Email	Purple Mash Logo	Purple Mash 2DIY 3D	Beebot
		Beebot		Beebot	Beebot	Beebot	
e							
ossible							
Si.							
10							
ő							
Pos							

Information Technology	Under review with EYFs curriculum refinments	Use technology purposefully to create, organise, store, manipulate and retrieve digital content	Use technology purposefully to create, organise, store, manipulate and retrieve 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 and analysing, evaluating and presenting data and information.	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 and analysing, evaluating and presenting data and information.	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 and analysing, evaluating and presenting data and information.	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 and analysing, evaluating and presenting data and information.
		Sort content into sound, pictures and text. Add sound, pictures and text to a program. Change content on a file such as text, sound and images. Name digital content/files. Save digital content/files. Find digital content/files already created.	Organise data – for example, using a database. Find data using specific searches. Use several programs to organise information – for example, using databases or spreadsheets. Edit digital data such as data in music composition Software. Name, save and find digital content/files. Include photos, text and sound in digital content.	Carry out searches to find digital content on a range of online systems, such as an internet search engine. Collect data and input it into software. Analyse data using features within software to help such as, formula in spreadsheets. Present data and information using different software such as branching database or spreadsheet graphing functionality. Consider what the most appropriate software to use when given a task. Create purposeful (appropriate) content and attach this to emails.	Understand the purpose of a search engine and the main features within it. Look at information on a webpage and make predictions about the accuracy of information contained within it. Create and improve solutions to a problem based on feedback. For example, create a program using a coding app. Review solutions that others have created, using a checklist of criteria. Work collaboratively to create content and solutions. Share digital content using a variety of applications such as: blogging sites, email apps and website notice boards.	Search precisely when using a search engine. For example, knowing you can add additional words or removes words to help find better results. Explain in detail how accurate, safe and reliable the content is on a webpage. Make appropriate improvements to digital work created. Comment on how successful a digital solution is to digital work created. For example, a program built in a coding app that has a specific purpose. Work collaboratively with others creating solutions to problems using appropriate software such as a coding app. Use collaborative modes within a digital concept mapping app to work with others and share pictures, sounds, notes and hyperlinks.	Use filters when searching for digital content. Explain in detail how accurate and reliable a webpage and its content are. Compare a range of digital content sources and rate them in terms of content quality and accuracy. Consider the intended audience carefully when designing and making digital Content. Design and create online blogs. Use criteria to evaluate the quality of own and others digital solutions, suggesting refinements.

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. (Year 4)	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. (EYFS) Sort physical objects, take a picture and discuss what I have done. (EYFS) Present simple data on a digital device. (EYFS)	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. (Year 3)	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)

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. (Year 2) Create a simple stop motion animation. (Year 2)	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. (EYFS) Use a painting app and explore the paint and brush tools. (EYFS)	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). (Year 2) Select and use tools to create digital imagery - controlling the pen and using the fill tool. (Year 2)	Confidently take and manipulate photos. (Year 3) Create a digital image using a range of tools, pens, brushes and effects. (Year 3)	Enhance digital images and photographs using crop and brightness tools. (Year 4)	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. (Year 2)	Create and edit purposeful compositions using music software to create mood or a certain style. (Year 3) Experiment with live loops to create a song. (Year 3)	Edit sound effects for a purpose. (Year 4) Create a simple four chord song following the correct rhythm. (Year 4)	Add voice over to clips (volume, pitch, fade, effect) to create a podcast. (Year 5) Create a remix of a popular song. (Year 5)

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 perform a song.	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 examples of technology are in school.reeded using a search engine.Explain the importance of having a secure password and not sharing it with others.the online safety rules we learn at school.online safety rules we school.online safety rules we information safet.online safety rules we information respectively and we safet.online safety rules we inform		
Subject		Say what technology is.
hinding accure parsword and consequences of the solution of the parsword and the parsword is a solution of the parsword is a s		
Now the Solution of the the solution of technology are at home, succing online succing online succing online technology are at home, reposition as a 'my work' folder. not sharing it with others. succing online succing online succing online succing online succing online succing online succing online succing online succing online succing online succing online online succing online online succing online online online online succing online o		
Sub problem 1 Sub work earlies of technology as a tome, keep logit information safe Consequences of roit keeping Sub work is a single base work in the temperature of wor		technology are in school.
Image: Section point of the section point point of the section point of the section point of the		
Image: Section of the section of t		
Norm Part		technology are at home.,
Share work and communicate such as a 'my work' folder. Share work and communicate such as a 'my work' folder. Share work and communicate such as a 'my work' folder. Indextand the importance of lectronical, w. Indextand the importance of lectronical, w. Always relate appropriate to have personal privacy. Always relate appropriate to have personal privacy. Indextand the importance of lectronical, w. Indextand the importance of lectronical, w. Always relate appropriate to have personal privacy. Indextand the importance of lectronical, w. Record the importance of lectronical, w. Always relate appropriate to have personal privacy. Indextand the importance of lectronical, w. Record the importance of lectronical, w. Always relate appropriate to have personal privacy. Indextand to have personal privacy. Indextand tohave personal privacy. Indextand to have pers		
Sue work in a stage communicate understand the importance offline. offline. online behaviour to their right betronication communication Bis bis bis to Recognise age appropriation website. Recognise age appropriation Recommunication tools Communication tools Recommunication tools <td></td> <td>Keep login information safe.</td>		Keep login information safe.
show show show show show show show show		
Image: Second		
Note A sector with comparison of the sector with		such as a 'my work' folder.
Image: Section of the section of t		
Image: See Neep Image: See Ne		
See keep or an adult word mide weep, or abult shales up word wide weep, or abult the see something that is unexpected or worying.		websites.
Image: Section of the sector of the secto		
Report unacceptable content worrying. Use key vocabulary to demonstrate knowledge and understanding in this stared, stafe, meet, accept, reliable, rinformation, zafety, personal, key, question, tell, safe, safe, meet, accept, reliable, rinformation, zafety, personal, key, question, tell, safe, safe, safe, safe, safe, safe, safe, safe, safe, safe, safe, safe, safe, safe, safe, safe, safe,	others online	
Image: Set in the strategies to keep in the sources of the source		
 and winder transfer be write the display to demonstrate knowledge and understanding in this strand: safe, meet, cacept, reliable, the full, online, trasted, aduit, information, safety, persona, key, question, tell, safe, share, stranger, danger, internet. be aduit word: be aduit word:<		-
Use key vocabulary to demonstrate knowledge and understandig in this strand: stafe, meet, accept, reliable, tell, online, fursted, adult Use key vocabulary to demonstrate knowledge and understandig in this strand: stafe, meet, accept, reliable, tell, online, fursted, adult Use key vocabulary to demonstrate knowledge and understandig in this strand: short understandig in this strand: short understandig in this strand: reading shifts to the adult world. Use key vocabulary to demonstrate knowledge and understandig in this strand: short understandig in this strand: tere, to stranger, danger, internet. Use key vocabulary to demonstrate knowledge and understandig in this strand: world wide web, social media. Use key vocabulary to demonstrate knowledge and understandig in this strand: world wide web, social media. Use key vocabulary to demonstrate knowledge and understandig in this strand: world wide web, social media. Use key vocabulary to demonstrate knowledge and understandig in this strand: world wide web, social media. Use key vocabulary to demonstrate knowledge and understandig in this strand: world wide web, social media. Use key vocabulary to demonstrate knowledge and understandig in this strand: world wide web, social media. Use key vocabulary to demonstrate mediation (riss- section). Chec world world wide web, social media. Use key vocabulary to demonstrate mediation (riss- section). Use key vocabulary to demonstrate mediation (riss- section). Use key vocabulary to demonstrate mediation. Use key vocabulary to demons	worrying. See where and content online in more infinitediate strategies to keep acknowledge the sources of	worrying.
 a biological production for demonstrate knowledge and understanding in this strand: safe, meet, accept, reliable, dult, information, safety, prevabulary, to demonstrate knowledge and understanding in this strand: share, scapet, reliable, dult, information, safety, prevabulary, to demonstrate knowledge and understanding. In this strand: share, scapet, reliable, durte, information, safety, prevabulary, to demonstrate knowledge and understanding. In this strand: information, safety, prevabulary, to demonstrate knowledge and understanding. In this strand: internet. b a dult world. b a dult world. b a dult world. c a dult world. <lic a="" dult="" li="" world.<=""> c a</lic>	technology is used at than one way to a trusted sale.	Line kou uperbularu te
Image: Note: Service: Serv	ose key vocabulary to school such as in the adult.	
she have been been been been been been been be		
Image: Section of the sectin of the section of the section of the section of the		
Image: Second	Saley meet, addipt, reliable, of a constrained and a constrained be and a constrained and a constrain	
key, question, tell, säfe, shære, stranger, danger, internet. ineed similar skills to the adult world. image, keyboard, emal, subject, adres, scorm, inicate, world wide web, social media. Use key vocabulary to demostrate and understanding in this strand: world wide web, social media. key, question, tell, safe, shære, stranger, danger, internet. internet. image, keyboard, emal, subject, adres, scorm, inicate, world wide web, social media. Use key vocabulary to demostrate and understanding in this strand: world wide web, social media. key, question, tell, safe, shære, stranger, danger, internet. internet. internet. world wide web, social media. key, question, tell, safe, shære, stranger, danger, internet. internet. keyboard, emal, seder, safe, secure, internet, world wide web, social media. understanding in this strand: world wide web, social media. kellet on their own digital footprint and behaviour online. of use, bias, secure, https, site, domain, website, secure, https, site, domain, website, secure, https, site, domain, website, secure, https, site, domain, website, settings might be relevant to reducing different risks. seek help from an adult when they see something that is unexpected or worrying. Seek help from an adult when they see something that is unexpected or worrying. been belaviour on the see something that is unexpected or worrying. Discurs scenarios involving		
share, stranger, danger, internet. the adult world. subject, address, communicate, sender, safe, secure, internet, world wide web, social media. demostrate knowledge and understanding in this strand; world wide web, search, search engine, advanced search, results, Google, browser, terms of use, bias, authority, citation, plagiarism, source, website, secure, https, site, domain, website, browser, address on understanding of age-appropriate understanding of age-appropriate understanding of age-appropriate websites and Judge what sort of privacy settings might be relevant to unexpected or worrying.		
internet. sender, safe, secure, internet, world wide web, search, world wide web, search, world wide web, search, results, Google, browser, terms of use, bias, authority, citation, plagiarism, source, website, secure, internet, recognising the timeret, recognising the term cyberbullying. understanding in this strand: world wide web, search, results, Google, browser, terms of use, bias, authority, citation, plagiarism, source, website, secure, https, site, domain, website, secure, https, site, domain, website, term cyberbullying. Seek help from an adult when they see something that is unexpected or worrying. Judge what sort of privacy settings might be relevant to reducing different risks. Seek help from an adult when they see something that is unexpected or worrying. Demonstrate understanding of age-appropriate websites and Discuss scenarios involving Discuss scenarios involving		
world wide web, social media. world wide web, social media. world wide web, social media. engine, advanced search, engine, advanced search, results, Google, browser, terms of use, bias, authority, citation, plagiarism, source, website, social media. Reflect on their own digital footprint and behaviour online. identify what is appropriate and inappropriate and in approprise and inappropriate and in appropriate and in approp		
Image: Section of the seccccccccccccccccccccccccccccccccccc		internet.
Reflect on their own digital results, Google, browser, terms of use, bias, authority, citation, plagairsm, source, website, gladier secure, https, site, domain, website, browser, address bar. identify what is appropriate and inappropriate behaviour on their nemery recognising the term cyberbullying. settings might be relevant to reducing different risks. settings might be relevant to reducing different risks. settings might be relevant to unexpected or worrying. bemostrate understanding of age-appropriate websites and bemostrate understanding of age-appropriate websites and biscuss scenarios involving		
Reflect on their own digital footprint and behaviour online. of use, bias, authority, citation, plagiarism, source, website, source, website, source, website, and inappropriate behaviour on the interrupt, recognising the term cyberbullying. Identify what is appropriate and inappropriate behaviour on the interrupt, recognising the term cyberbullying. Judge what sort of privacy settings might be relevant to reducing different risks. Seek help from an adult when they see something that is unexpected or worrying. Seek help from an adult when they see something that is unexpected or worrying. Seek help from an adult when they see something that is unexpected or worrying. Demonstrate understanding of age-appropriate websites and Discuss scenarios involving		
Image: Section of the section of th		
Image: Secure Attraction of the internet, recognising the term cyberbullying. Identify what is appropriate behaviour on the internet, recognising the term cyberbullying. Judge what sort of privacy settings might be relevant to reducing different risks. Seek help from an adult when they see something that is unexpected or worrying. Seek help from an adult when they see something that is unexpected or worrying. Seek help from an adult when they see something that is unexpected or worrying. Demonstrate understanding of age-appropriate websites and Discuss scenarios involving Discuss scenarios involving		
Image: set in the set in		
and inappropriate behaviour on the internet, recognising the term cyberbullying. Judge what sort of privacy settings might be relevant to reducing different risks. Seek help from an adult when they see something that is unexpected or worrying. Seek help from an adult when they see something that is unexpected or worrying. Demonstrate understanding of age-appropriate websites and Discuss scenarios involving		
Image: set in the internet, recognising the term cyberbullying. Judge what sort of privacy settings might be relevant to reducing different risks. Image: set internet, recognising the term cyberbullying. Seek help from an adult when they see something that is unexpected or worrying. Seek help from an adult when they see something that is unexpected or worrying. Image: set internet, recognising the term cyberbullying. Seek help from an adult when they see something that is unexpected or worrying. Seek help from an adult when they see something that is unexpected or worrying. Image: set internet, recognising the term cyberbullying. Demonstrate understanding of age-appropriate websites and Discuss scenarios involving		
Image: set ings might be relevant to reducing different risks. Seek help from an adult when they see something that is unexpected or worrying. Seek help from an adult when they see something that is unexpected or worrying. Image: Demonstrate understanding of age-appropriate websites and Discuss scenarios involving		
Image: Seek help from an adult when they see something that is unexpected or worrying. Seek help from an adult when they see something that is unexpected or worrying. Image: Demonstrate understanding of age-appropriate websites and Discuss scenarios involving		
Seek help from an adult when they see something that is unexpected or worrying. Seek help from an adult when they see something that is unexpected or worrying. Demonstrate understanding of age-appropriate websites and Discuss scenarios involving		
Image: search of the search		
Image: state in the state i		
Image: Constraint of the second se		
Demonstrate understanding of age-appropriate websites and Discuss scenarios involving		
	age-appropriate websites and Discuss scenarios involving	
Use key vocabulary to Use key vocabulary to	Use key vocabulary to Use key vocabulary to	
demonstrate knowledge and demonstrate knowledge and	demonstrate knowledge and demonstrate knowledge and	
understanding in this strand: understanding in this strand:	understanding in this strand: understanding in this strand:	
safe, meet, accept, reliable, tell, spam, link, privacy, virus, scam,	safe, meet, accept, reliable, tell, spam, link, privacy, virus, scam,	
online, trusted, adult, phishing, inbox, junk, sender,	online, trusted, adult, phishing, inbox, junk, sender,	
information, safety, personal, subject, secure, safe, account,	information, safety, personal, subject, secure, safe, account,	
internet, world wide web, online, private, social media,		
communicate, message, social adverts, cyberbullying,	communicate, message, social adverts, cyberbullying,	
media, email, password, reporting, anonymous, victim,	media, email, password, reporting, anonymous, victim,	
cyberbullying/bullying, fraud/fraudulent, policy,		
plagiarism, profiles, account, private/personal.		
private, public.		

		Retrieval of prior knowledge				I know what is meant by technology (Year 1). I know a variety of examples of technology both in and out of school (Year 1). I know that I should keep information, such as usernames and passwords, private and actively demonstrate this in lessons (Year 1). I know how to save work in A private space (Year 1).	I know how to effectively retrieve relevant, purposeful digital content using a search engine. (Year 2) I know how to apply learning of effective searching beyond the classroom, and I know how to share this knowledge. (Year 2) I know how to make links between technology I see around me, coding and multimedia work we do in school. (Year 2) I know the implications of inappropriate online searches. (Year 2) I know how documents and information are shared electronically. (Year 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 how to demonstrate the importance of having a secure password and not sharing this with anyone else. (Year 3) I know how to explain the negative implications of failure to keep passwords safe and secure. (Year 3) I know the importance of staying safe and the importance of my conduct when using familiar communication tools. (Year 3) I know more than one way to report unacceptable content and contact. (Year 3)	I know how to explore key concepts relating to online safety using concept mapping. (Year 4) I know how to help others to understand the importance of online safety. (Year 4) I know a range of ways of reporting inappropriate content and contact. (Year 4)	I have a secure knowledge of common online safety rules. (Year 5) I know how to apply online safety rules by demonstrating the safe and respectful use of a few different technologies and online services. (Year 5) I know how to relate appropriate online behaviour to my right to personal privacy and mental wellbeing. (Year 5)
--	--	------------------------------	--	--	--	---	--	--	---	--

	New Knowledge	I know what is meant t technology. I know a variety of examples of technolog in and out of school. I know that I should ke information, such as usernames and passw private and actively demonstrate this in les I know how to save wo A private space.	effectively retrieve relevant, purposeful digital content using a search engine. I know how to apply learning of effective searching beyond the classroom, and I know how to share this knowledge. I know how to make links between technology I see around me, coding and multimedia work we do in school. I know the implications of inappropriate online searches. I know how documents and information are	I know how to demonstrate the importance of having a secure password and not sharing this with anyone else. I know how to explain the negative implications of failure to keep passwords safe and secure. I know the importance of staying safe and the importance of my conduct when using familiar communication tools. I know more than one way to report unacceptable content and contact.	I know how to explore key concepts relating to online safety using concept mapping. I know how to help others to understand the importance of online safety. I know a range of ways of reporting inappropriate content and contact.	I have a secure knowledge of common online safety rules. I know how to apply online safety rules by demonstrating the safe and respectful use of a few different technologies and online services. I know how to relate appropriate online behaviour to my right to personal privacy and mental wellbeing.	I know how to demonstrate the safe and respectful use of a range of different technologies and online services. I know how to identify more discreet inappropriate behaviours through developing critical thinking. I know how to recognise the value in preserving privacy when online for my own and other people's safety.
	New Knowledg		and multimedia work we do in school. I know the implications of inappropriate online searches.				
			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>	1.1 Online safety	1.3 Pictograms	1.5 Maze Explorers	1.7 Coding	1.8 Spreadsheets	1.9 Tech outside school
Year 2	2.1 Coding	2.2 Online safety	2.3 Spreadsheets	2.5 Effective searching	2.7 Making music	2.8 Presenting ideas
Year 3	3.1 Coding	3.2 Online safety	3.3 Spreadsheets	3.5 Email	3.8 Graphing	3.9 Presenting (PowerPoint)
Year 4	4.1 Coding	4.2 Online safety	4.3 Spreadsheets	4.5 Logo	4.6 Animations	4.7 Effective searching
<u>Year 5</u>	5.1 Coding	5.2 Online safety	5.3 Spreadsheets	5.4 Databases	5.5 Game creator	5.9 Using external devices
<u>Year 6</u>	6.1 Coding	6.2 Online safety	6.4 Blogging	6.6 Networks	6.7 Quizzing	6.9 Excel spreadsheets