Strand	EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Using	Exploring hardware	Technology	Information	Connecting	The internet	Sharing	Communication
technology		around us	technology	computers		information	
CS:	To recognise		around us		To know how		To know how to use a
Computing	technology in the	To identify		To know how	networks are	To know that	search engine and
systems	home and at	technology	To recognise uses	digital devices	physically	computers can be	refine my search. To
NW: Networks IT:	school. To access	and how it	and features of	function. To	connected. To	connected to form	know that search
Impact of	and use simple	helps us. To	information	identify input	know how	systems.	engines select results
technology	activities using	know the	technology. To	and output	different network	(including inputs,	using tools such as
0,7	touch technology	main parts	know the purpose	devices. To know	devices make up	outputs and	web crawlers and
	with increasing	of a	of information	how digital	the internet. To	processes) To	index. To explain how
	control (including	computer.	technology in the	devices can	know how	know the benefits	search results can be
	cameras, video,	To use a	home, at school	change the way	websites are	of a computer	ranked. To know why
	microscopes and	mouse in	and beyond. To	we work. To	stored and	system and	an order of results is
	tablets) Play videos	various	know how	know how a	created online. To	identify the	important and that
	and become	ways. To	technology	computer	know how content	human elements.	some have
	familiar with play,	know how to	benefits us. To	network can be	is protected and	To know how	limitations. To
	pause and stop	use a	know how to	used to share	how to find the	information is	recognise and use a
	buttons. To know	keyboard to	make good	information. To	creators of	transferred over	range of ways to
	how to use a	type and	choices when	know how digital	content. To	the internet using	communicate using
	shortcut on an iPad	edit a text.	using information	devices can be	evaluate the	unique addresses	technology. To
	to access a program	To know	technology. To	connected. To	reliability of	and agreed	evaluate different
	or website.	how to use	know how to log	know the	content online. To	methods. To know	methods of online
		technology	on, save and shut	physical	research and	that we can access	communication. To
		responsibly.	down. To know	components of a	record concise	shared files online	present work using a
		To know	how the internet	network. To	information from	to enable us to	range of software.
		how to log	works and how it	know how to	online searching,	work	
		on to a	is useful in the	open, compose	including	collaboratively. To	
		laptop and	modern world. To	and reply to	advanced	evaluate different	
		shut down.	know how to use	emails. To use	searches. To use	ways of working	
		To know	search engines	the internet for	PowerPoint and	online (including	
		how to use	safely including	research and use	MS word to	public or private).	
		the internet	using key words.	Microsoft Word	present learning.	To use Word,	
		to find	To carry out	to create a		PowerPoint and	
		images	simple note	document,		Publisher to	
			taking from	including		present learning	
			online sources.	downloading			
				images.			

	Introduction to	Grouping	Pictograms	Branching	Data logging	Flat-file data	Spreadsheets - excel
Data and	data	data	To count and	databases	To know that data	bases- J2E	To identify relevant
information	To use technology	To label	compare objects	To know what	collected over a	To know how to	questions which can
DI: Data &	to sort objects such	objects. To	using tally charts.	branching	period of time can	use a form to	be answered using
Information	as those with a	count	To enter data	databases are.	be used to answer	record	data. To know that
	certain colour or	objects. To	onto a computer	To create	questions. To	information. To	objects can be
	shape. With	describe	and view it in	questions with	know how to use a	sort data using	described using data.
	assistance, make a	objects in	different formats,	Yes/No answers.	digital device to	fields, records and	To apply a number
	simple pictogram.	different	including	To identify the	collect data	databases. To	format to a cell. To
		ways. To	pictures. To know	object attributes	automatically. To	group and sort	construct a formula
		count	how to create a	needed to	collect data using	data according to	in a spreadsheet to
		objects with	pictogram. To	collect relevant	suitable places	a line of enquiry.	produce calculated
		the same	select objects by	data. To know	and intervals. To	To use tools to	data. To apply
		properties.	attributes and	how to create a	import data and	select specific	formulas to data and
		To compare	make	branching	interpret it. To	data. To know	duplicate it. To create
		groups of	comparisons. To	database. To	identify and	how to use filters	a spreadsheet to plan
		objects. To	explain how to	compare	collect data to	and compare data	an event. To present
		answer	present data	branching.	answer a	visually. To follow	data and use suitable
		questions	safely and in	-	question.	my own line of	ways to do so.
		about	different ways.			enquiry and	
		groups of				present my	
		objects.				findings.	
		-				_	
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Strand	EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Strand Communic	EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
	EYFS Keyboard skills	Year 1 Digital	Year 2 Digital	Year 3 Stop-frame			Year 6 Webpage design
Communic	<b>Keyboard skills</b> To know how to		Digital photography –		Audio Editing -	Vector drawing –	Webpage design
Communic ating,	<b>Keyboard skills</b> To know how to use the keyboard	Digital	Digital photography – using photo	Stop-frame	Audio Editing - Audacity		Webpage design To review existing
Communic ating, presenting	<b>Keyboard skills</b> To know how to	Digital painting	Digital photography –	Stop-frame animation -	Audio Editing - Audacity To know that	Vector drawing – publisher	Webpage design
Communic ating, presenting and	<b>Keyboard skills</b> To know how to use the keyboard	Digital painting using paint	Digital photography – using photo	Stop-frame animation - Scratch	Audio Editing - Audacity To know that sound can be	Vector drawing – publisher To know that	Webpage design To review existing
Communic ating, presenting and creating	<b>Keyboard skills</b> To know how to use the keyboard and mouse. To	Digital painting using paint To describe	<b>Digital</b> <b>photography</b> – using photo editor Pixlr To	Stop-frame animation - Scratch To know that a	Audio Editing - Audacity To know that sound can be digitally recorded	Vector drawing – publisher To know that different tools	Webpage design To review existing websites and their
Communic ating, presenting and creating	Keyboard skills To know how to use the keyboard and mouse. To write my name	Digital painting using paint To describe and explain	<b>Digital</b> <b>photography</b> – using photo editor Pixlr To know what	<b>Stop-frame</b> animation - Scratch To know that a flip book-	Audio Editing - Audacity To know that sound can be digitally recorded using inputs and	Vector drawing – publisher To know that different tools produce different	Webpage design To review existing websites and their structure. To know
Communic ating, presenting and creating	Keyboard skills To know how to use the keyboard and mouse. To write my name	Digital painting using paint To describe and explain what	<b>Digital</b> <b>photography</b> – using photo editor Pixlr To know what devices can be	<b>Stop-frame</b> animation - Scratch To know that a flip book- animation is a	Audio Editing - Audacity To know that sound can be digitally recorded using inputs and outputs. To know	Vector drawing – publisher To know that different tools produce different outcomes and	Webpage design To review existing websites and their structure. To know that websites are
Communic ating, presenting and creating	Keyboard skills To know how to use the keyboard and mouse. To write my name	Digital painting using paint To describe and explain what different	<b>Digital</b> <b>photography</b> – using photo editor Pixlr To know what devices can be used to take	Stop-frame animation - Scratch To know that a flip book- animation is a sequence of	Audio Editing - Audacity To know that sound can be digitally recorded using inputs and outputs. To know how to use a	Vector drawing – publisher To know that different tools produce different outcomes and investigate these.	Webpage design To review existing websites and their structure. To know that websites are written in HTML. To
Communic ating, presenting and creating	Keyboard skills To know how to use the keyboard and mouse. To write my name	Digital painting using paint To describe and explain what different paint tools	Digital photography – using photo editor Pixlr To know what devices can be used to take photographs. To	Stop-frame animation - Scratch To know that a flip book- animation is a sequence of drawings or	Audio Editing - Audacity To know that sound can be digitally recorded using inputs and outputs. To know how to use a digital device to	Vector drawing – publisher To know that different tools produce different outcomes and investigate these. To know how to	Webpage design To review existing websites and their structure. To know that websites are written in HTML. To plan the features of a
Communic ating, presenting and creating	Keyboard skills To know how to use the keyboard and mouse. To write my name	Digital painting using paint To describe and explain what different paint tools do. To know	Digital photography – using photo editor Pixlr To know what devices can be used to take photographs. To use a digital	Stop-frame animation - Scratch To know that a flip book- animation is a sequence of drawings or photographs. To	Audio Editing - Audacity To know that sound can be digitally recorded using inputs and outputs. To know how to use a digital device to record sound and	Vector drawing – publisher To know that different tools produce different outcomes and investigate these. To know how to create a vector	Webpage design To review existing websites and their structure. To know that websites are written in HTML. To plan the features of a web page. To know
Communic ating, presenting and creating	Keyboard skills To know how to use the keyboard and mouse. To write my name	Digital painting using paint To describe and explain what different paint tools do. To know how to use	Digital photography – using photo editor Pixlr To know what devices can be used to take photographs. To use a digital device to take a	Stop-frame animation - Scratch To know that a flip book- animation is a sequence of drawings or photographs. To relate animated	Audio Editing - Audacity To know that sound can be digitally recorded using inputs and outputs. To know how to use a digital device to record sound and play it back. To	Vector drawing – publisher To know that different tools produce different outcomes and investigate these. To know how to create a vector drawing by	Webpage design To review existing websites and their structure. To know that websites are written in HTML. To plan the features of a web page. To know and consider the
Communic ating, presenting and creating	Keyboard skills To know how to use the keyboard and mouse. To write my name	Digital painting using paint To describe and explain what different paint tools do. To know how to use shape and	Digital photography – using photo editor Pixlr To know what devices can be used to take photographs. To use a digital device to take a photograph and	Stop-frame animation - Scratch To know that a flip book- animation is a sequence of drawings or photographs. To relate animated movement with	Audio Editing - Audacity To know that sound can be digitally recorded using inputs and outputs. To know how to use a digital device to record sound and play it back. To know that digital	Vector drawing – publisher To know that different tools produce different outcomes and investigate these. To know how to create a vector drawing by combining shapes.	Webpage design To review existing websites and their structure. To know that websites are written in HTML. To plan the features of a web page. To know and consider the ownership and use of
Communic ating, presenting and creating	Keyboard skills To know how to use the keyboard and mouse. To write my name	Digital painting using paint To describe and explain what different paint tools do. To know how to use shape and line tools for	Digital photography – using photo editor Pixlr To know what devices can be used to take photographs. To use a digital device to take a photograph and adapt the format.	Stop-frame animation - Scratch To know that a flip book- animation is a sequence of drawings or photographs. To relate animated movement with a sequence of	Audio Editing - Audacity To know that sound can be digitally recorded using inputs and outputs. To know how to use a digital device to record sound and play it back. To know that digital recordings can be	Vector drawing – publisher To know that different tools produce different outcomes and investigate these. To know how to create a vector drawing by combining shapes. To use tools for a	Webpage design To review existing websites and their structure. To know that websites are written in HTML. To plan the features of a web page. To know and consider the ownership and use of images. To know
Communic ating, presenting and creating	Keyboard skills To know how to use the keyboard and mouse. To write my name	Digital painting using paint To describe and explain what different paint tools do. To know how to use shape and line tools for effect. To	Digital photography – using photo editor Pixlr To know what devices can be used to take photographs. To use a digital device to take a photograph and adapt the format. To know what	Stop-frame animation - Scratch To know that a flip book- animation is a sequence of drawings or photographs. To relate animated movement with a sequence of images. To plan	Audio Editing - Audacity To know that sound can be digitally recorded using inputs and outputs. To know how to use a digital device to record sound and play it back. To know that digital recordings can be stored as a file	Vector drawing – publisher To know that different tools produce different outcomes and investigate these. To know how to create a vector drawing by combining shapes. To use tools for a desired effect. To	Webpage design To review existing websites and their structure. To know that websites are written in HTML. To plan the features of a web page. To know and consider the ownership and use of images. To know about copyright. To
Communic ating, presenting and creating	Keyboard skills To know how to use the keyboard and mouse. To write my name	Digital painting using paint To describe and explain what different paint tools do. To know how to use shape and line tools for effect. To select	Digital photography – using photo editor Pixlr To know what devices can be used to take photographs. To use a digital device to take a photograph and adapt the format. To know what makes a good	Stop-frame animation - Scratch To know that a flip book- animation is a sequence of drawings or photographs. To relate animated movement with a sequence of images. To plan and create an	Audio Editing - Audacity To know that sound can be digitally recorded using inputs and outputs. To know how to use a digital device to record sound and play it back. To know that digital recordings can be stored as a file (podcast) To	Vector drawing – publisher To know that different tools produce different outcomes and investigate these. To know how to create a vector drawing by combining shapes. To use tools for a desired effect. To create layers in a	Webpage design To review existing websites and their structure. To know that websites are written in HTML. To plan the features of a web page. To know and consider the ownership and use of images. To know about copyright. To know how to add
Communic ating, presenting and creating	Keyboard skills To know how to use the keyboard and mouse. To write my name	Digital painting using paint To describe and explain what different paint tools do. To know how to use shape and line tools for effect. To select appropriate	Digital photography – using photo editor Pixlr To know what devices can be used to take photographs. To use a digital device to take a photograph and adapt the format. To know what makes a good photograph and	Stop-frame animation - Scratch To know that a flip book- animation is a sequence of drawings or photographs. To relate animated movement with a sequence of images. To plan and create an animation using	Audio Editing - Audacity To know that sound can be digitally recorded using inputs and outputs. To know how to use a digital device to record sound and play it back. To know that digital recordings can be stored as a file (podcast) To combine audio	Vector drawing – publisher To know that different tools produce different outcomes and investigate these. To know how to create a vector drawing by combining shapes. To use tools for a desired effect. To create layers in a vector drawing. To	Webpage design To review existing websites and their structure. To know that websites are written in HTML. To plan the features of a web page. To know and consider the ownership and use of images. To know about copyright. To know how to add content to my
Communic ating, presenting and creating	Keyboard skills To know how to use the keyboard and mouse. To write my name	Digital painting using paint To describe and explain what different paint tools do. To know how to use shape and line tools for effect. To select appropriate colours and	Digital photography – using photo editor Pixlr To know what devices can be used to take photographs. To use a digital device to take a photograph and adapt the format. To know what makes a good photograph and retake it. To use	Stop-frame animation - Scratch To know that a flip book- animation is a sequence of drawings or photographs. To relate animated movement with a sequence of images. To plan and create an animation using a series of	Audio Editing - Audacity To know that sound can be digitally recorded using inputs and outputs. To know how to use a digital device to record sound and play it back. To know that digital recordings can be stored as a file (podcast) To	Vector drawing – publisher To know that different tools produce different outcomes and investigate these. To know how to create a vector drawing by combining shapes. To use tools for a desired effect. To create layers in a	Webpage design To review existing websites and their structure. To know that websites are written in HTML. To plan the features of a web page. To know and consider the ownership and use of images. To know about copyright. To know how to add content to my webpage. To edit and

		picture. To explain choices. To	range of skills to capture a photo.	improve my animation by adding other	To evaluate and edit choices.	To know how to use navigation paths
		compare a picture on paper and on the		media.		
		computer.				3D modelling – using
CM:	Using a tinker tray	Digital	Making	Desktop	Photo editing –	tinkercad
Creating media DD:	Explore ways to making and	writing word	music – using chrome	<b>publishing</b> To know that	get pait.net	To use a computer to
Design& Developm ent	listening to sounds using simple programs and devices.	To know how to use a computer to write. To add and remove text on a computer. To change the text and explain my choices. To compare writing on paper and by hand.	music lab To describe how music makes usfeel and identify differences. To identify and create patterns in music. To know how to create music in different ways, including experimenting with pitch and duration. To create music for a purpose. To review	text and images can convey information. To edit text, font style, size, colour and layout for a given purpose. To choose appropriate setting and create a template for a purpose. To add content to a desktop publishing publication. To use different layouts for different purposes. To compare and evaluate my work.	To know how editing can effect an image and that they are not always real. To change the composition of an image. To know how images can be changed for different uses. To make good choices when selecting different tools to retouch an image. To evaluate and compare original, fake and adapted images.	rouse a computer to create and manipulate a 3D digital object. To select, move and delete a 3D object. To change the colour and resize a 3D object. To compare working digitally with 2D and 3D graphics. To construct a 3D model of a physical object. To position, rotate and duplicate an object. To group and create a collection on shapes. To design and construct a digital model by combining objects.

Strand	EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Algorithms and Programs	Programming Beebots and exploring instructions To use a range of control toys and devices such as beebots. To explore simple control devices in role play such astils,	Moving a robot To know how to control a moving object. To follow instructions and commands. To combine forwards and backwards commandsto make a sequence. To combine 4 direction commands. To plan a simple program. To findmore than one solution to a problem.	Robot Algorithms To describe a series of instructions as a sequence. To know what happens when we change the order of instructions using a range of algorithms. To use logical reasoning to predict the outcome of a series of commands. To design an algorithm, To explain choicesfor codes and artwork. To know how to create and debug a program that I have written.	Sequence in music – Scratch To know, identify and name components and attributes on a programming environment. To create and edit a sprite. To create a sequence of connected commands. To combine sound and notesto make a sequence. To change the appearance and design. To create a project from a task description.	Repetition in shapes – editing a screen turtle To investigate codes and commands, using accuracy. To know how to create a program using textbased language. To use repetition and loops. To modify a count controlled look to produce a given outcome. To decompose a programinto parts.	Selection in physical computing – Crumble software To know how to control a simple circuit connected to a computer. To create a program that includes countcontrolled loops. To know that a loop can stop when a condition is met. To know how to program a microcontroller to respond to an input. To know that a loop can be used to check whether a condition has been met. To design a physical project that includes selection. To create a controllable system that includes selection	Variables in games – Scratch To know that a variable is something that can change or hold numbers or letters. To know why a variable is used in a program To improve a game by choosing variables. To select artwork and create algorithmsfor a project. To design and create a game project. To test the code that I have written. To evaluate and extend my game. To share my game with others.
PG: Programmin g AL: Algorithms ET: Effective use of tools		Programming animations – ScratchJr To know how to use Scratch Jrto carry out a task To choose a command for a purpose. To join a series of	Quizzes - ScratchJr To create a sequence with a start. To change the outcome of a command. To create a program using a design and adapt it. To	Events and actions – Scratch To know how a sprite moves and the relationship between an event and an action. To create a program to move a sprite in 4 directions. To adapt	Repetition in games – scratch To develop the use of count- controlled loops. To modify loops, including using infinite loops. To know how to create a design	Selection in quizzes – scratch To know how selection is used in computer programs using conditions. To know that a conditional statement connects to an outcome. To	Sensing – microbit To create a program to run on a controllable device. To control the flow of a program To update a variable with a user input. To use a conditional statement to compare a variable

		commands together. To identify the effect of changing a value. To explain how a sprite can be changed. To design parts of a project. To use an algorithm to create a basic program and choose a sprite to match the design.	usemy own design using blocks and images	a program to a new context. To develop a program and add features. To identify and fix bugs. To design and create a maze-based challenge.	which has two or more looks at the same time. To design and create a project with repetition to create a game.	know how selection directs the flow of a diagram. To design and create a program which uses selection. To evaluate my program.	to a value. To design a project that uses inputs and outputs on a controllable device. To develop a program to use inputs and outputs on a controllable device.
Strand	EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
E Safety SS: Safety and security	To know that information should be kept private (such as your name, school, address) To know how to handle a piece of equipment safely	To know how to handle a piece of ICT equipment safely. To identify how computers make our lives more simple in a modern world. To know how to keep information private.	To know and understand what personal information is and that it should not be shared. To identify a trusted adult who I can talk to if I see something online that I don't like. To know about cyber bullying and how to tackle it. To know how to behave online. To know I have the right to say no. To show how to use information technology safely and responsibly	To know what information is appropriate and not appropriate to share online. To know how to protect your privacy online. To know how to create a strong password. To know how to treat others online.	To know about phishing scams and bots as a way to steal people's data and how to protect yourself from this. To recap the key aspects of cyberbullying and how to be an up stander and not a bystander. To know how to get help online if you experience cyberbullying. To know about digital enhancement and how this distorts perceptions.	Recap how to create strong passwords and customise privacy settings. To know and understand how encryption works and become familiar with systems, including Morse code. To know about age restrictions and how to stay safe on social media. To recap how to get help online from cyberbullying.	To know that communication on the internet isn't always private. To learn how to respond to cyberbullying and recap the concept of upstanders and bystanders. To know about being a digital citizen and how to have safe practices for communicating. To know about targeted advertising and gender stereotyping online. To recap phishing, scams and catfishing. To recap how to respond to cyberbullying.