



EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Technology around us	Technology around	Information technology	Connecting computers	The internet	Sharing information	Communication
Understand that if you	us	around us	Explain how digital	Describe how networks	Explain that computers	Identify how to use a
push a button on device	Identify technology	Recognise the uses and	devices function	physically connect to other	can be connected	search engine
it will respond e.g.		features of information		networks	together to form	
remote control toy.	Identify a computer	technology	Identify input and		systems	Describe how search
	and its main parts		output devices	Recognise how networked		engines select results
Recognise basic parts of		Identify information		devices make up the internet	Recognise the role of	
a computer e.g. mouse,	Use a mouse in	technology in the home	Recognise how digital		computer systems in our	Describe how search
screen, keyboard.	different ways		devices can change the	Outline how websites can be	lives	engines select results
		Identify information	way we work	shared via the World Wide	-	
Recognise basic parts of	Use a keyboard to	technology beyond		Web	Recognise how	Explain how search
a keyboard e.g.	type	school	Explain how a		information is	results are ranked
spacebar, numbers and			computer network can	Describe how content can be	transferred over the	
letters.	Use the keyboard to	Explain how information	be used to share	added and accessed on the	internet	Recognise why the orde
	edit text	technology benefits us	information	World Wide Web		of results is important,
Use a mouse to move					Explain how sharing	and to whom
the pointer on a screen.	Create rules for using	Show how to use	Explore how digital	Recognise how the content of	information online lets	
	technology	information technology	devices can be	the WWW is created by	people in different	Recognise how we
	responsibly	safely	connected	people	places work together	communicate using technology
		Recognise that choices	Recognise the physical	Evaluate the consequences of	Contribute to a shared	
		are made when using	components of a	unreliable content	project online	Evaluate different
		information technology	network			methods of online
					Evaluate different ways	communication
	\				of working together	
					online	
Vocabulary:	Vocabulary:	Vocabulary:	Vocabulary:	Vocabulary:	Vocabulary:	Vocabulary:
Technology, computer,	Technology,	Information technology	Digital device, input,	Internet, network, router,	System, connection,	Search, search engine,
mouse/trackpad,	computer,	(IT), computer, barcode,	output, process,	network security, network	digital, input, process,	refine, index, crawler,
keyboard, screen, click,	mouse/trackpad,	scan.	program, connection,	switch, server, wireless access	output, protocol,	bot, search engine,
drag, input device, shift,	keyboard, screen,		network, network	point (WAP), website, web	address, packet, chat,	ranking, optimisation,
space bar, capital letter,	click, drag, input		switch, server, wireless	page, web address, routing,	explore, slide deck,	links, content creator,
full stop,	device, shift, space		access point (WAP).	route tracing, browser, World	reuse, remix,	selection,
	bar, capital letter, full			Wide Web, content, links,	collaboration	communication,
	stop, safely,			files, download, sharing,		internet, one-way, two-
	responsibly.			ownership, permission,		way, one-to-one, one-tp
				information, sharing,		many.
				accurate, honest, content,		
				adverts.		





Creating Media EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Use simple programs on	Digital painting	Digital photography	Stop-frame animation	Audio editing	Video editing	Web page creation
a computer or tablet.	Describe what different	Know what devices can	Explain that animation is	Identify that sound can	Recognise video as	Review an existing
a computer or tablet.			1 .	1		
December that a manage	freehand tools do	be used to take	a sequence of drawings	be digitally recorded	moving pictures, which	website and consider its
Recognise that a range		photographs	or photographs		can include audio	structure
of technology is used in	Use the shape tool and			Use a digital device to		
places such as homes	the line tools	Use a digital device to	Relate animated	record sound	Identify digital devices	Plan the features of a
and schools.		take a photograph	movement with a		that can record video	web page
	Make careful choices		sequence of images	Explain that a digital		
Show an interest in	when painting a digital	Describe what makes a		recording is stored as a	Capture video using a	Consider the ownership
technological toys with knobs and pulleys, or	picture	good photograph	Plan an animation	file	digital device	and use of images (copyright)
real objects such as	Explain why I chose the	Decide how photographs	Identify the need to	Explain that audio can be	Recognise the features	
cameras, or mobile	tools I used	can be improved	work consistently and	changed through editing	of an effective video	Recognise the need to
devices.			carefully			preview pages
	Use a computer on my	Use tools to change an		Show that different	Identify that video can	
	own to paint a picture	image	Review and improve an	types of audio can be	be improved through	Outline the need for a
			animation	combined and played	reshooting and editing	navigation path
	Compare painting a	Recognise that images		together		
	picture on a computer	can be changed	Evaluate the impact of		Consider the impact of	Recognise the
	and on paper		adding other media to	Evaluate editing choices	the choices made when	implications of linking to
		Making music	an animation	made	making and sharing a	content owned by other
	Digital writing	Say how music can make			video	people
	Use a computer to write	us feel	Desktop publishing	Photo editing		Footier
	and a sompation to time		Recognise how text and	Explain that digital	Vector drawing	3D modelling
	Add and remove text on	Identify that there are	images convey	images can be changed	Identify that drawing	Use a computer to
	a computer	patterns in music	information	inages can be enanged	tools can be used to	create and manipulate
	a computer	patterns in music		Change the composition	produce different	three-dimensional (3D)
	Identify that the look of	Describe how music can	Recognise that text and	of an image	outcomes	digital objects
	text can be changed on a	be used in different ways	layout can be edited	or arrillage	outcomes	digital objects
	_	be used in different ways	layout can be edited	Describe how images	Create a vector drawing	Compare working
	computer	Charring and a	Charac annuantiata nasa	Describe how images	Create a vector drawing	Compare working
		Show how music is made	Choose appropriate page	can be changed for	by combining shapes	digitally with 2D and 3D
	Make careful choices	from a series of notes	settings	different uses		graphics
	when changing text				Use tools to achieve a	
		Create music for a	Add content to a	Make good choices	desired effect	Construct a digital 3D
	Explain why I used the	purpose	desktop publishing	when selecting different		model of a physical
	tools that I chose		publication	tools	Recognise that vector	object
		Review and refine our			drawings consist of	
		computer work		Recognise that not all	layers	Identify that physical
				images are real		objects can be broken





	Compare writing on a		Consider how different	Evaluate how changes	Group objects to make	down into a collection of
	computer with writing on paper		layouts can suit different purposes	can improve an image	them easier to work with	3D shapes
	оп раро.				Evaluate my vector	Design a digital model by
			Consider the benefits of desktop publishing		drawing	combining 3D objects
			accused basining			Develop and improve a digital 3D model
Vocabulary:	Vocabulary:	Vocabulary:	Vocabulary:	Vocabulary:	Vocabulary:	Vocabulary:
Program, app.	Paint program, tool, paintbrush, erase, fill, undo, primary colours, shape tools, line tool, fill tools, undo tool, brush style, brush size, like, prefer, dislike, word processor, keyboard, keys, letters, numbers, space, backspace, text	Device, camera, photograph, capture, image, digital, landscape, portrait, horizontal, vertical, field of view, narrow, wide, format, framing, focal point, subject matter, compose, natural lighting, artificial	Animation, flip book, stop frame animation, frame, sequence, image, photograph, setting, character, events, onion skinning, consistency, evaluation, delete, media, import, transition, test, images, advantages,	Audio, record, playback, microphone, speaker, headphones, input, output, sound, playback, start, pause, podcast, sound, playback, start, pause, stop, podcast, save, file, edit, selection, open, mixing, time shift, export, evaluate,	Video, audio, recording, storyboard, script, soundtrack, dialogue, capture, zoom, storage, digital, tape, AV (audiovisual), videographer, recording, zoom, pan, tilt, angle, lighting, setting, content, export, split, trim/clip,	Website, webpage, browse, media, Hypertext Markup Language (HTML), logo, layout, header, media, purpose, copyright, fair use, home page, preview, device, navigation, hyperlink, subpage, implication,
	cursor, toolbar, bold, italic, underline.	lighting, flash, focus, background, foreground, editing, tools, colour, filter, format, changed, real, open, edit.	disadvantages, communicate, font, style, template, landscape, portrait, orientation, placeholder, copy, paste, layout, purpose, benefits.	feedback, image, arrange, select, digital, crop, undo, save, copyright, composition, pixels, crop, rotate, flip, adjustments, effects, colours, hue/saturation, sepia, adjust, sharpen, brighten, composite, publication, elements, layer.	titles, end credits, timeline, transitions, audio soundtrack, retake, special effects, vector, drawing tools, shapes, object, icons, toolbar, duplicate, organise, rotate, alignment, grid, resize, handles, modify, consistency, layers, order, group, ungroup, reuse.	external link, embed, 2D, 3D, view, resize, colour, lift, rotate, position, select, duplicate, dimensions, placeholder, hole, group, ungroup.





EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
	Grouping data	Pictograms	Branching databases	Data logging	Flat-file databases	Spreadsheets
	Label objects	Recognise that we can	Create questions with	Explain that data	Use a form to record	Identify questions which
		count and compare	yes/no answers	gathered over time can	information	can be answered using
	Identify that objects can	objects using tally charts		be used to answer		data
	be counted		Identify the object	questions	Compare paper and	
		Recognise that objects	attributes needed to		computer-based	Explain that objects can
	Describe objects in	can be represented as	collect relevant data	Use a digital device to	databases	be described using data
	different ways	pictures		collect data		
			Create a branching	automatically	Outline how grouping	Explain that formula can
	Count objects with the	Create a pictogram	database		and then sorting data	be used to produce
	same properties			Explain that a data	allows us to answer	calculated data
		Select objects by	Identify objects using a	logger collects 'data	questions	
	Compare groups of	attribute and make	branching database	points' from sensors		Apply formulas to data,
	objects	comparisons		over time	Explain that tools can be	including duplicating
			Explain why it is helpful		used to select specific	
	Answer questions about	Recognise that people	for a database to be well	Use data collected over a	data	Create a spreadsheet to
	groups of objects	can be described by	structured	long duration to find		plan an event
		attributes		information	Explain that computer	
			Compare the		programs can be used to	Choose suitable ways to
		Explain that we can	information shown in a	Identify the data needed	compare data visually	present data
		present information	pictogram with a	to answer questions		
		using a computer	branching database		Apply my knowledge of a	
		1 4 10		Use collected data to	database to ask and	
				answer questions	answer real-world	
					questions	
/ocabulary:	Vocabulary:	Vocabulary:	Vocabulary:	Vocabulary:	Vocabulary:	Vocabulary:
	Object, label, group,	More than, less than,	Attribute, value,	Data, table, input device,	Data, information,	Spreadsheet, data, data
	search, image, property,	most, least, organise,	questions, table, objects,	sensor, data logger,	record, field, sort, order,	heading, data set, cells,
	colour, size, shape,	data, object, tally chart,	branching database,	logging, data point,	group, search, criteria,	columns, rows, format,
	value, label, data set,	votes, total, pictogram,	database, equal, even,	interval, analyse, data	graph, chart, axis,	common attribute,
	more, less, most, fewest,	enter, tally char,	separate, structure,	set, import, export,	compare, filter	calculation, input,
	same.	compare, count, explain,	compare, order,	collection, review,		output, cell reference,
		more common, least	organise, information,	conclusion.		formula, range,
		common, attribute,	selecting, decision tree.			supplicate, sigma,
		group, same, different,				
		conclusion, sharing.				





EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Inderstand that many	Moving a robot	Robot algorithms	Sequence in music	Repetition in shapes	Selection in physical	Variables in games
everyday devices	Explain what a given	Describe a series of	Explore a new	Identify that accuracy in	computing	Define a 'variable' as
espond to commands.	command will do	instructions as a	programming	programming is	Control a simple circuit	something that is
		sequence	environment	important	connected to a	changeable
Begin to follow simple	Act out a given word				computer	
nstructions.		Explain what happens	Identify that each sprite	Create a program in a		Explain why a variable
	Combine forwards and	when we change the	is controlled by the	text-based language	Write a program that	used in a program
	backwards commands to	order of instructions	commands I choose		includes count-	
	make a sequence			Explain what 'repeat'	controlled loops	Choose how to improv
		Use logical reasoning to	Explain that a program	means		a game by using
	Combine four direction	predict the outcome of a	has a start		Explain that a loop can	variables
	commands to make	program (series of		Modify a count-	stop when a condition is	
	sequences	commands)	Recognise that a	controlled loop to	met, eg number of times	Design a project that
			sequence of commands	produce a given		builds on a given
	Plan a simple program	Explain that	can have an order	outcome	Conclude that a loop can	example
		programming projects			be used to repeatedly	
	Find more than one	can have code and	Change the appearance	Decompose a program	check whether a	Use my design to crea
	solution to a problem	artwork	of my project	into parts	condition has been met	a project
	Introduction to	Design an algorithm	Create a project from a	Create a program that	Design a physical project	Evaluate my project
	animation		task description	uses count-controlled	that includes selection	
	Choose a command for a	Create and debug a		loops to produce a given		Sensing
	given purpose	program that I have	Events and actions	outcome	Create a controllable	Create a program to ru
		written	Explain how a sprite		system that includes	on a controllable device
	Show that a series of		moves in an existing	Repetition in games	selection	
	commands can be joined	Introduction to quizzes	project	Develop the use of		Explain that selection
	together	Explain that a sequence		count-controlled loops in	Selection in games	can control the flow of
		of commands has a start	Create a program to	a different programming	Explain how selection is	program
	Identify the effect of		move a sprite in four	environment	used in computer	
	changing a value	Explain that a sequence	directions		programs	Update a variable with
		of commands has an		Explain that in		user input
	Explain that each sprite	outcome	Adapt a program to a	programming there are	Relate that a conditional	
	has its own instructions	Create a program using a	new context	infinite loops and count	statement connects a	Use a conditional
		given design		controlled loops	condition to an outcome	statement to compare
	Design the parts of a		Develop my program by			variable to a value
	project	Change a given design	adding features	Develop a design which	Explain how selection	
				includes two or more	directs the flow of a	Design a project that
	Use my algorithm to	Create a program using	Identify and fix bugs in a	loops which run at the	program	uses inputs and outpu
	create a program	my own design	program	same time		on a controllable devi





		Decide how my project can be improved	Design and create a maze-based challenge	Modify an infinite loop in a given program Design a project that includes repetition Create a project that includes repetition	Design a program which uses selection Create a program which uses selection Evaluate my program	Develop a program to use inputs and outputs on a controllable device
Vocabulary:	Vocabulary:	Vocabulary:	Vocabulary:	Vocabulary:	Vocabulary:	Vocabulary:
Equipment, buttons, movement, device.	Forwards, backwards, turn, clear, go, commands, instructions, directions, plan, algorithm, program, route, sprite, compare, programming, block, joining, start block, run, background, delete, reset, predict, effect, change, value	Instruction, sequence, clear, unambiguous, algorithm, program, order, commands, prediction, design, route, mat, debugging, run, start, blocks, sprite, modify, change, match, features, evaluate.	Programming, blocks, commands, code, sprite, costume, stage, backdrop, motion, turn, point in direction, go to, glide, event, task, design, run the code, sequence, order, algorithm, bug, debug, motion, event, logic, move, resize, extension block, pen up, set up, action, errors, test.	Program, turtle, commands, code snippet, algorithm, design, debug, pattern, repeat, repetition, count-controlled loop, algorithm, value, trace, value, decompose, procedure, sprite, loop, forever, infinite, loop, duplicate, modify, evaluate.	Microcontroller, components, LED, crocodile clips, connect, battery box, program, repetition, infinite, loop, count-controlled loop, switch, motor, condition, output devices, selection, action, conditional statement, algorithm, program, debug, input, outcomes, implement, design, test	Variable, change, name, value, set, design, event, algorithm, code, task, design, artwork, project, test, debug, improve, evaluate, share, input, process, output, selection, condition, if then, else, variable, random, sensing.





EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Say when I am on the	Log in and out and save	Understand how to stay	Articulate how to be a	Recognise what	Identify possible dangers	Understand the
internet and when I am	work on their own	safe when talking to	responsible digital	appropriate behaviour is	online and learning how	importance of secure
not.	account.	people online.	citizen; understand their	when collaborating with	to stay safe.	passwords and how to
			responsibilities to treat	others online.		create them.
	Understand the	Understand not to share	others respectfully and		Create an animation	
	importance of a	personal information and	recognise when digital	Recognise that	about digital safety.	Understand the
	password.	what to do if they see or	behaviour is unkind.	information on the		consequences of sharing
		hear something online		Internet might not be	Recognise that	too much personal
	When using the internet	that makes them feel	Understand and	true or correct and that	information on the	information.
	to search for images,	upset or uncomfortable.	articulate cyberbullying.	some sources are more	Internet might not be	
	learning what to do if			trustworthy than other.	true or correct and	Use search engines
	they come across	Explain why you should go	Understand that not all		learning ways of	safely and effectively.
	something online that	online for a short amount	emails are genuine, and		checking validity.	
	worries them or makes	of time.	how to recognise when			Recognise that updated
	them feel		an email might be fake		Demonstrate the use of	software can help to
	uncomfortable.	Recognise that not	and what to do about it.		an online community	prevent data corruption
		everyone who is who they			safely.	and hacking.
	Explain what personal	say they are on the				
	information is.	internet.				Explain the
						consequences of
	Talk about why it is					spending too much time
	important to be kind					online or on a game.
	online.	1 4 1 0,				
						Explain how and why it
						is important to protect a
						computer or device from
						harm on the internet.
Vocabulary:	Vocabulary:	Vocabulary:	Vocabulary:	Vocabulary:	Vocabulary:	Vocabulary:
Choices Internet	Rules	Appropriate/inappropriate	E-safety rules	E-safety rules	Responsible online	Responsible online
Website	Online	sites	Secure passwords	Secure passwords	communication	communication
	Private information	Cyber-bullying	Report abuse button	Report abuse button	Informed choices	Informed choices
	Email	Digital footprint	Gaming	Gaming	Virus threats	Virus threats
		Keyword searching	Blogs	Blogs	Blogs	Blogs
					Messaging	Messaging