



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



## Lakeside Primary Academy – Computing Skills Progression



		accurate, honest, content, adverts.	





PYFSYear 1Year 2Year 3Year 4Year 4Year 5Year 6Use simple programs on a computer or table.Digita pinting Describe what differen freehand tools do freehand tools do of the used to take photographsStopframe animatio Stopframe animatio a sequence of drawings or photographsAudie editing Audie editing hat sound can be digitally record be be digitally record be to an include audioWeb year 0Web year 0Recognise that a range of technology is used in places such as homesUse the shape tool and the line toolsUse a digital device to take a photographRelate animated movement with aUse a digital devices movement with aHeat animation tecord soundIdentify digital devices tecord soundPlant he factures of a web pageShow an interest in technological toys with devices.Weber and cigital go do photographRecord for animation movement with aFereord ing is stored and web pageConsider the ownership and use of inages go do photographPlant an animation go do photographFereord ing is stored and go do photographGo sider the ownership and use of inages go do photographRecord in the owner ship and use of inages go and photographRecognise the animation and use of inages go and photographRecognise the device and use of inages go and photographRecognise the device and use of inages and use of inages go an effective videoRecognise the cowner ship and use of inages and use of inages go an effective videoRecognise the cowner ship and use of inages and use of inagesRecognise the need to go phot
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Making music an animation made making and sharing a content owned by other
Digital writing Say how music can make people video people
Use a computer to write us reel Desktop publishing Photo editing
Add and remove text on Udentify that there are limeges convey.
Add and remove text on indentity that there are images convey images can be changed indentity that drawing Use a computer to
a computer patterns in music information (bons can be used to create and manipulate three dimensional (2D)
Change the composition produce different time-dimensional (SD)
text can be changed on a lobe used in different ways layout can be edited
computer
Computer Describe now infages 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 sories of notes softings
when changing text
When changing text Use tools to achieve a
Explain why lused the purpose deskton publiching when calecting different model of a physical
tools that I chose I have been publication I hole tools Recognise that vector object
Review and refine our
computer work Recognise that not all lavers Identify that physical
images are real objects can be broken



## Lakeside Primary Academy – Computing Skills Progression



	Compare writing on a computer with writing on paper		Consider how different layouts can suit different purposes Consider the benefits of desktop publishing	Evaluate how changes can improve an image	Group objects to make them easier to work with Evaluate my vector drawing	down into a collection of 3D shapes Design a digital model by combining 3D objects Develop and improve a digital 3D model
Vocabulary: Program, app, camera, mobile device, tablet.	Vocabulary: 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 cursor, toolbar, bold, italic, underline.	Vocabulary: 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 lighting, flash, focus, background, foreground, editing, tools, colour, filter, format, changed, real, open, edit.	Vocabulary: Animation, flip book, stop frame animation, frame, sequence, image, photograph, setting, character, events, onion skinning, consistency, evaluation, delete, media, import, transition, test, images, advantages, disadvantages, communicate, font, style, template, landscape, portrait, orientation, placeholder, copy, paste, layout, purpose, benefits.	Vocabulary: 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, 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.	Vocabulary: 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, 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.	Vocabulary: Website, webpage, browse, media, Hypertext Markup Language (HTML), logo, layout, header, media, purpose, copyright, fair use, home page, preview, device, navigation, hyperlink, subpage, implication, external link, embed, 2D, 3D, view, resize, colour, lift, rotate, position, select, duplicate, dimensions, placeholder, hole, group, ungroup.





Data & Information								
EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6		
Group a small selection	Grouping data	Pictograms	Branching databases	Data logging	Flat-file databases	Spreadsheets		
of objects.	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		
Name and describe the	Identify that objects can	objects using tally charts		be used to answer		data		
objects.	be counted		Identify the object	questions	Compare paper and			
		Recognise that objects	attributes needed to		computer-based	Explain that objects can		
Count the objects.	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				
Answer a "what"			Create a branching	automatically	Outline how grouping	Explain that formula can		
questions about the	Count objects with the	Create a pictogram	database		and then sorting data	be used to produce		
groups of objects.	same properties			Explain that a data	allows us to answer	calculated data		
		Select objects by	Identify objects using a	logger collects 'data	questions			
To be able to talk about	Compare groups of	attribute and make	branching database	points' from sensors		Apply formulas to data,		
the objects they have	objects	comparisons		over time	Explain that tools can be	including duplicating		
sorted/compared.			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			
				Use collected data to	database to ask and			
				answer questions	answer real-world			
					questions			
Vocabulary:	Vocabulary:	Vocabulary:	Vocabulary:	Vocabulary:	Vocabulary:	Vocabulary:		
Colour, shape, size,	Object, label, group,	More than, less than,	Attribute, value,	Data, table, input device,	Data, information,	Spreadsneet, data, data		
more, less, equal.	search, image, property,	most, least, organise,	questions, table, objects,	sensor, data logger,	record, field, sort, order,	neading, data set, cells,		
	colour, size, snape,	data, object, tally chart,	database, aqual aven	interval analyse data	group, search, criteria,	columns, rows, format,		
	value, label, data set,	votes, total, pictogram,		interval, analyse, data	graph, chart, axis,	common attribute,		
	more, less, most, lewest,	enter, tany char,	separate, structure,	set, import, export,	compare, inter	calculation, input,		
	same.	more common least	organise information	conclusion		formula rango		
		common attributo	solacting decision trop	conclusion.		supplicato sigma		
		group same different	שבוכנוווצ, עכנוטטוו נופפ.			supplicate, sigilia,		
		conclusion sharing						





Programming							
EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	
Understand 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	
respond 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		
instructions.		Explain what happens	Identify that each sprite	Create a program in a		Explain why a variable is	
	Combine forwards and	when we change the	is controlled by the	text-based language	Write a program that	used in a program	
Combine two commands	backwards commands to	order of instructions	commands I choose		includes count-		
to make a sequence.	make a sequence			Explain what 'repeat'	controlled loops	Choose how to improve	
		Use logical reasoning to	Explain that a program	means		a game by using	
Find a solution to a	Combine four direction	predict the outcome of a	has a start		Explain that a loop can	variables	
problem.	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	
To explore cause and			sequence of commands	produce a given		builds on a given	
effect toys.	Plan a simple program	Explain that	can have an order	outcome	Conclude that a loop can	example	
		programming projects			be used to repeatedly		
To give a simple	Find more than one	can have code and	Change the appearance	Decompose a program	check whether a	Use my design to create	
instruction.	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	French and a diam.	loops to produce a given		Sensing	
	given purpose	program that I have	Events and actions	outcome	Create a controllable	Create a program to run	
	Show that a coriac of	written	explain now a splite	Ponotition in games	solaction	on a controllable device	
	snow that a series of	Introduction to guizzos	nroiost	Develop the use of	Selection	Explain that coloction	
	together	Explain that a sequence	project	count-controlled loops in	Selection in games	can control the flow of a	
	together	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	program	
	changing a value	Explain that a sequence	directions	chuionnene	programs	Undate a variable with a	
		of commands has an	uncetions	Explain that in	programs	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 a	
	Design the parts of a		Develop my program by	- r -		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 outputs	
	create a program	my own design	program	same time		on a controllable device	



## Lakeside Primary Academy – Computing Skills Progression



		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,	Forwards, backwards,	Instruction, sequence,	Programming, blocks,	Program, turtle,	Microcontroller,	Variable, change, name,
movement, device,	turn, clear, go,	clear, unambiguous,	commands, code, sprite,	commands, code	components, LED,	value, set, design, event,
forwards, backwards,	commands, instructions,	algorithm, program,	costume, stage,	snippet, algorithm,	crocodile clips, connect,	algorithm, code, task,
stop, go, turn, start.	directions, plan,	order, commands,	backdrop, motion, turn,	design, debug, pattern,	battery box, program,	design, artwork, project,
	algorithm, program,	prediction, design, route,	point in direction, go to,	repeat, repetition,	repetition, infinite, loop,	test, debug, improve,
	route, sprite, compare,	mat, debugging, run,	glide, event, task, design,	count-controlled loop,	count-controlled loop,	evaluate, share, input,
	programming, block,	start, blocks, sprite,	run the code, sequence,	algorithm, value, trace,	switch, motor, condition,	process, output,
	joining, start block, run,	modify, change, match,	order, algorithm, bug,	value, decompose,	output devices,	selection, condition, if
	background, delete,	features, evaluate.	debug, motion, event,	procedure, sprite, loop,	selection, action,	then, else, variable,
	reset, predict, effect,		logic, move, resize,	forever, infinite, loop,	conditional statement,	random, sensing.
	change, value		extension block, pen up,	duplicate, modify,	algorithm, program,	
			set up, action, errors,	evaluate.	debug, input, outcomes,	
			test.		implement, design, test	





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