



SHERRIER CE PRIMARY COMPUTING NATIONAL CURRICULUM COVERAGE

Progression in computing

Computing systems and network									
Key Skill:	EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6		
	Use different digital	Recognise a range of	Recognise what a	Describe what a	Recognise that you	Type using fingers	Type efficiently		
	devices	digital devices.	computer is (input >	computer is (input >	can organise files	on both hands.	using both hands.		
			process > output).	process > output)	using a folder.				
	Recognise that you	Select a digital				Use common	Use a range of		
	can access content	device to fulfil a	Recognise that a	Explain the	Explain what a good	keyboard shortcuts	keyboard shortcuts		
	on a digital device.	specific task e.g. to	range of digital	difference between	file name would look	e.g. ctrl C and ctrl V			
		take a photo.	devices contain	input and output	like.		Recognise that		
	Use a mouse,		computers (phones,	devices on a		Explain what makes	different devices		
	touchscreen, or	Name a range of	games console,	computer.	Delete and move	a strong password.	may have different		
	appropriate access	digital devices, e.g.	smart speaker).	K	files.	Line foldens to	operating systems.		
	to device to target	laptop, phone,	Fueleie whet the	Know where to save		Use folders to	Organica files		
	and select options	games console.	Explain what the	and open files (e.g.	Use key parts of a	organise files.	Organise files effectively using		
	on screen.	Log on to the school	basic parts of a computer are used	shared folder).	keyboard effectively, e.g. shift, arrow	Know how to mute	folders and file		
	Recognise a	Log on to the school computer/unlock	for.	Save files with	keys, delete.	and unmute audio	names.		
	selection of digital	the school tablet	101.	appropriate names.	keys, delete.	on a computer or	names.		
	devices.	with support.	Identify and use	appropriate names.	Know how to copy	tablet.	Use the advanced		
	devices.	with support.	input devices, e.g.	Use a keyboard	and paste text or		search tools when		
	Recognise the basic	Identify the basic	mouse, keyboard;	effectively to type in	images in a	Recognise that there	using a search		
	parts of a computer	parts of a computer	and output devices,	text.	document.	is more than one	engine to find		
	e.g. mouse, screen,	e.g. mouse,	e.g. speakers,		document.	search engine, and	specific information		
	keyboard.	keyboard, screen.	screen.	Use left/right and	Crop an image and	that they may	and images.		
	incy bound.		50,001	double click on a the	apply simple filters.	produce different	und integest		
	Select a digital	Use suitable access	Open key	mouse.		results.	Explain the basic		
	device to fulfil a	device (mouse,	applications		Use a search engine		function of an		
	specific task e.g. to	keyboard,	independently.	Add an image to a	to find specific	Use a search engine	operating system.		
	take a photo.	touchscreen, switch)	, ,	document from the	information.	effectively to find	,		
		to access and	Save and open files	internet. Resize and		information and	Recognise commor		
		control an activity	to/from a given	move an image in a	Recognise that	images.	file types and		
		on a computer.	folder.	document.	school computers	_	extensions e.g. jpeg		
					are connected on a	Know how to search	png, doc, wav.		
		Open key	Add an image to a	Use a search engine	network.	for an application on			
		applications	document from a	to find simple		a computer/tablet.	Recognise a range of		
		independently.	given folder/source.	information.			Internet services e.		
							email, VOIP (e.g.		
		Save and open files	Resize an image in a				Skype, FaceTime),		
		with support.	document. Highlight						

	text and use arrow	Recognise that		World Wide Web,
Add an image to a	keys.	school computers		and what they do.
document from a		are connected.		
given folder/source	Capture media			
with support.	independently (e.g.			
	take photos, record			
	audio).			

	Presenting information and creating multi-media.								
Key Skill:	EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6		
	Use technology to	Create digital	Create simple digital	Present ideas and	Collect, organise and	Identify and use	Select, combine and		
	explore and access	content, e.g. digital	content for a	information by	present information	appropriate	remix a range of		
	digital content.	art.	purpose, e.g. digital	combining media	using a range of	hardware and	media to create		
			art, poster.	independently, e.g.	media.	software to fulfil a	original content.		
	Operate a digital	Choose media from		text and images.		specific task .			
	device with support	a selection (e.e.	Recognise that we		Design and create		Consider all steps of		
	to fulfil a task.	images, video,	can use technology	Design and create	digital content for	Remix and edit a	the design process		
		sound) to present	to record playback	simple digital	specific purpose, e.g.	range of existing,	when creating		
	Create simple digital	information on a	audio or take and	content for a	poster, animation.	and their own,	content (e.g. identify		
	content, e.g. digital	topic.	view photographs.	purpose/audience,		media to create	problems, plan,		
	art.			e.g. a poster.	Edit digital content	content.	create, evaluate,		
		Recognise that you	Apply edits to digital		to improve it		share).		
	Choose media to	can find out	content to achieve a	Edit digital content	according to	Consider the			
	convey information,	information from a	particular effect, e.g.	to improve, e.g.	feedback.	audience when	Identify the most		
	e.g. image for a	website.	emphasise part of a	resize text.		designing and	effective tools to		
	poster.		text.		Identify the features	creating digital	present information		
		Select basic		Identify the features	of a good piece of	content.	for a specific		
		tools/operations to	Present ideas and	of a good piece of	digital content and		purpose.		
		change the	information by	digital content.	apply these in own	Recognise the			
		appearance of	combining media,		designs.	benefits of using	Explain the benefits		
		digital content, e.e.	e.g. text and images.	Explain why we use		technology to	of using technology		
		filter on an		technology to create	Explain the benefits	collaborate with	to collaborate with		
		image/font/size of	Explain that you can	digital content.	of using technology	others.	others.		
		paintbrush.	search for		to present				
			information on the	Recognise why we	information.	Identify success	Evaluate existing		
		Combine media with	internet.	use different types		criteria for creating	digital content in		
		support to present		of media to convey	Know where to find	digital content for a	terms of		
		information, e.g.	Plan out digital	information, e.g.	copyright-free	given purpose and	effectiveness and		
		text and images.	content, e.g. a	text, image, audio,	content, e.g.	audience.	design.		
			simple sketch or	video.	creative commons				
			storyboard.		images.	Evaluate their own			
						content against			
			Identify the common		Collaborate with	success criteria and			
			features of digital		peers using online				

content, e.g. title, images.	tools, e.g. blogs, Google Drive, Office 365 etc. a specific	make improvements accordingly.
Recognise that we can use different types of media to	purpose, e.g. poster, animation.	
convey Information, e.g. text, image, audio, video.		

Data and information								
Key Skill:	EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	
	Access content in a	Recognise different	Recognise tally	Recognise charts.	Draw conclusions	Explain the	Recognise what a	
	range of formats,	forms of digital	charts, charts,	Pictograms and	from information	differences between	spreadsheet is and	
	e.g. video, image,	content, e.g. text,	pictograms and	databases and why	story in a database,	data and	what it is used for.	
	audio.	image, video and	branching databases	we use them.	chart or table.	information.		
		audio.	and why we use				Explain the	
	Answer basic		them.	Present information	Design a	Appreciate that	difference between	
	questions about	Collect simple data		using a suitable	questionnaire and	different programs	physical, mobile and	
	information	(e.g. likes/dislikes)	Explain all	chart.	collect a range of	work with different	wireless networks.	
	displayed in images.	on a topic.	information shown		data on a theme.	types of data, e.g.		
			in a simple chart or	Explore a record		text, number, video,	Use simple formulae	
		Present simple data	pictogram.	card database to	Choose appropriate	paper database.	in a spreadsheet to	
		using images e.g.		find out information.	formats to present		find out information	
		number of	Identify key features		data to convey	Explain the different	from a set of data.	
		animals/favourite	of a chart of	Use filters in a	information.	between the		
		colour.	pictogram.	database to find out		Internet and the	Collect data for a	
				specific information.	Recognise that data	World Wide Web.	purpose and plan	
		Recognise tally	Collect data on a		can be collected on		out a spreadsheet to	
		charts and	topic (eye colour,	Name they key parts	digital devices and	Know the difference	present it	
		pictograms and why	pets etc) and	of a database, e.g.	sensors	between a search	effectively, using	
		we use them.	present in a	record, field, search.	automatically.	engine and a web	relevant formulae.	
			pictogram or a chart.	A		browser.	Due dure encode forme	
			Madificationala	Answer questions	Use a computer	Fundain the beside of	Produce graphs from	
			Modify simple	about information in	program to sort data	Explain the basics of	data in a	
			charts/pictograms,	a database. Create	by attributes.	how search engines	spreadsheet to	
			e.g. add title, item or labels.	questions using yes or no.	Present the same	work.	answer a question.	
					data in a graph and	Perform searches for	Analyse and	
				Name some benefits	in a chart.	information using	evaluate data and	
				of using a computer		advanced settings in	information in a	
				to create charts and	Know that you use a	search engines.	spreadsheet, chart	
				databases.	Know that you use d	search engines.	or database.	

Recognise that access information in internet. databases.	ion benefits and risks of sharing data online. Use, create and State of
Compare databasesneed to use spectrumand branching datasoftware to woto a pictogram.with video, imaaudio etc.audio	rk

	Programming and algorithms.								
Key Skill:	EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6		
	Explore technology.	Recognise that	Explain that	Predict the outcome	Create a program	Name a range of	Design and program		
		computers don't	computers have no	of a block or text-	using a range of	sensors in physical	a physical		
	Repeat an action wit technology to trigger	have a brain.	intelligence and we have to program	based program (Scratch/discovery	events/inputs to control what	systems.	computing system that uses sensors.		
	a specific outcome.	Explain that we control computers	them to do things.	coding).	happens.	Recognise that different solutions	Recognise and use		
	Recognise the success or failure of an action.	by giving them instructions.	Create a program with multiple steps, e.g. to control a	Modify an existing program, e.g. change background,	Recognise that we can decompose a problem into smaller	may exist for the same problem.	producers (sub- routines) in programs.		
	Follow simple	Explain that we control computers	floor robot.	number of times things happen.	parts to help solve it.	Predict what will happen in a program	Plan out a program		
	instructions to control a digital	by giving instructions.	Predict the outcome of an algorithm or	Identify repeated	Explain when to use forever loops and	algorithm when the input changes (e.g.	in detail, including task, algorithm, code		
	device.	Create a simple	program with multiple steps.	steps in a program or algorithm.	count-controlled loops, and use them	sensor, data or event).	and execution level.		
	Recognise that we	program, e.g. to			in programs.		Explain common		
	control computers.	control a floor robot – create a simple	Recognise that the instructions in an	Create examples of algorithms	Recognise selection	Use two-way selection in a	errors in programs and how to fix them.		
	Input a short sequence of	algorithm.	algorithm need to be clear and	containing count controlled loops.	in a program or algorithm.	program and what they do.	Use nested selection		
	instructions to	Predict the outcome	unambiguous.			Curata unablaria	statements in a		
	control a device.	of a simple algorithm or	Identify and correct	Use a count- controlled loop to	Use selection in algorithms in	Create problems including 'repeat	program or algorithm		
		program.	errors in each algorithm and	make a program more efficient.	programs to alter what happens when	until' loops.	effectively.		
		Explain what an algorithm is – a	program and recognise the term	Recognise that we	a condition changes, e.g. ifthen	Create and use simple variables, e.g.	Combine a variable with relational		
		sequence of	debugging.	can create an	-	to keep score.	operators (< = >) to		
		instructions to make something happen.		algorithm to help plan out a program.	Design a program for a purpose.		determine when a program changes,		

Recognise that the order of instructions	Explain what an algorithm is, and that when inputted	Identify errors in a block or text-based	Recognise common mistakes in	Evaluate a program and make improvements to	e.g. if score >5 say 'well done'.
in an algorithm is important.	on a computer it is called a program.	program and correct them.	programs and how to correct them.	the code or design accordingly.	Recognise key concepts (sequence,
Debug an error in a simple algorithm or	Plan out a program by creating an	Recognise that different inputs can		Create an algorithm for a physical system	selection, repetition and variable) in a range of languages
program, e.g. for a floor robot.	algorithm and evaluate its success.	be used to control a program.		containing a sensor.	and contexts.