



Computing - Curriculum Overview

Year	Subject specific Vocabulary	'The Greats'	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2	
Nursery	vocasular y		 Understanding the World: Technology Knows how to operate simple equipment, e.g. turns on CD player, uses a remote control, can navigate touch-capable technology with support Shows an interest in technological toys with knobs or pulleys, real objects such as cameras, and touchscreen devices such as mobile phones and tablets Shows skill in making toys work by pressing parts or lifting flaps to achieve effects such as sound, movements or new images Knows that information can be retrieved from digital devices and the internet Plays with a range of materials to learn cause and effect, for example, makes a string puppet using dowels and string to suspend the puppet 						
	Ipad Computer Photo Video Internet Type Keyboard Mouse Screen Phone Whiteboard		 Uses ICT h software Can create picture on s Develops di and interac Can use the 	a simple program o ardware to interac content such as a screen gital literacy skills t with a range of t	It supervision to find o	es, and/or draw a			





Key stage 1

Pupils should be taught to:

- understand what algorithms are; how they are implemented as programs on digital devices; and that programs execute by following precise and unambiguous instructions
- create and debug simple programs
- use logical reasoning to predict the behaviour of simple programs
- use technology purposefully to create, organise, store, manipulate and retrieve digital content
- recognise common uses of information technology beyond school
- use technology safely 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.

Key stage 2

Pupils should be taught to:

- 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 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
- 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, analysing, evaluating and presenting data and information
- use technology safely, respectfully and responsibly; recognize acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact.





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	Year 1	Instructions,	Walt	Programing - Programming toys	Computer Skills	Word -	Graphics and	Internet Research
		algorithm,	Disney	-understand what algorithms are;	-use the	-put text on	Design - Paint	
		sequenced,		how they are implemented as	trackpad, switch	screen		-Key word search
		ordered, step-by-		programs on digital devices; and	on/off, save	-use upper and	-Basic skills,	
		step, clockwise,		that programs execute by following		lower case	brush, fill, shapes	-use technology
١		anti-clockwise,		precise and unambiguous	-use technology	-use the space		purposefully to
		quarter turn,		instructions.	purposefully to	bar	-use technology	create, organise,
١		program, debug,			create, organise,	-use the Shift	purposefully to	store, manipulate
١		direct, clear,		-create and debug simple programs.	store,	-use Caps lock	create, organise,	and retrieve digital
١		sequence			manipulate and	-use undo and	store, manipulate	content
١				-use logical reasoning to predict the	retrieve digital	redo	and retrieve	
١		Trackpad, click,		behaviour of simple programs.	content		digital content	Presentation-
١		double click,				-use technology		Word, Publisher,
١		launch, minimize,		-look at household technology-		purposefully to		PowerPoint
١		taskbar, folder,		-recognise common uses of		create, organise,		
١		save, save as,		information technology beyond		store,		-Create information
				school.		manipulate and		document- famous
		Uppercase,				retrieve digital		people
١		lowercase, Caps				content		
١		lock, shift, space						-use technology
		bar, save, icon,						purposefully to
١		edit, backspace,						create, organise,
١		delete, arrow keys,						store, manipulate
١		undo, redo						and retrieve digital
								content
		Brush, select,						
١		cursor, drag, hold,						
١		fill, shape, undo,						
١		redo, text, insert,						
		format, share						
		Search, internet,						
		key word						





Year 2	Information, presentation,	Nick Park	Presentation- PowerPoint	Graphics and Design	Programming - Logo	Word	Programming Scratch	Internet Research
	insert, font, copy,		rowerroini	- Paint	Logo	-know that text	Scratch	-search terms for
	paste,		-Basic skills, insert	- Paini	-Basic shapes	can be saved and	-Beginning with	children
	paste,		slides, copy and paste	-create	-basic snapes	retrieved	basics, adding a	children
	Fill, colour, tool		pictures	work from	-understand	-change the	sprite, moving a	-use technology
	bar, computer		pictures	other	what algorithms	font style	sprite, moving a	purposefully to
	program, shape		-use technology	artists	are; how they	-change the	spriie,	create, organise,
	tool.		purposefully to	artists	are implemented	font size	-understand what	store, manipulate
	1001,		create, organise,	-use	as programs on	-change the	algorithms are;	and retrieve digital
	Code, instructions,		store, manipulate and	technology	digital devices;	font colour	how they are	content
			retrieve digital	J,	and that	-print their	implemented as	Content
	program, algorithm,		content	purposefully to create,		work using the	programs on	
	algorithm,		Content		programs	Print icon	digital devices;	Presentation-
	lluda mada dalaat			organise,	execute by	-use the cursor	and that	Word, Publisher,
	Undo, redo, select,			store,	following precise			PowerPoint
	bold, highlight, italic, drag,			manipulate	and unambiguous instructions -	(arrow) keys for simple on screen	programs execute by following	PowerPoint
				and	create and	•	,	-create information
	underline, font,			retrieve		editing	precise and	•
	size, snipping tool,			digital	debug simple	-with support,	unambiguous instructions	document- famous
	print screen, copy,			content	programs -use	import graphics and add text	INSTRUCTIONS	people
	paste				logical reasoning	ana ada Text		
	Danamana anda				to predict the		-create and debug	-use technology
	Program, code,				behaviour of	-use technology	simple programs	purposefully to
	script, algorithm,				simple programs	purposefully to		create, organise,
	repeat, event,					create, organise,	-use logical	store, manipulate
	variable,					store,	reasoning to	and retrieve digital
	commands,					manipulate and	predict the	content
						retrieve digital	behaviour of	
	Search, internet,					content	simple programs	
	key word							
Year 3	Copy, paste, insert,	Larry Page	Presentation -	Graphics	Programming -	Word	Programming -	Internet research
	font, solid fill,		Powerpoint	and Design	Logo		Scratch	and communication
	background			-Paint		-select text and		Caanah magulta
			-format and design		-pen up/pen	change the font	-more complex	-Search results
	Computer program,		slides/backgrounds	-new tools	down	style, size and	scripts	-understand
	fill, shade, shade,		_			colour		computer networks
	retrieve, file, save,							including the





save as,	-select, use and
transparent colour,	combine a variety of software (including
Repeat, program,	internet services) on
code, algorithm,	a range of digital
debug, regular,	devices to design and
angle	create a range of
	programs, systems
Screenshot,	and content that
manipulating	accomplish given
windows, copy,	goals, including
paste, uppercase,	collecting, analysing,
lowercase, align,	evaluating and
bullet points,	presenting data and
numbering,	information
shortcut, select,	
text	
Create, command,	
algorithm, polygon,	
debugging,	
repeating pattern,	
Web search,	
search engine,	
order	

-using and
manipulating
objects
-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,
analysing,
evaluating
and
presenting
data and
information

-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 logical
reasoning to
explain how
some simple
algorithms work
and to detect
and correct
errors in
algorithms and
programs

-desian write

text -import graphics and add text -print using the menu -use print preview -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, analysing, evaluating and presenting data and information

-select text and

Underline icons

-use the scroll

different parts

of the document

justify / align

bars to view

use Bold and

-design, write and debug programs that accomplish specific goals, including controlling or simulating physical systems; solve problems by decomposing them into smaller parts

selection, and repetition in programs; work with variables and various forms of input and output

-use sequence,

-use logical reasoning to explain how some simple algorithms work and to detect and correct errors in algorithms and programs

internet; how they can provide multiple services, such as the world wide web; and the opportunities they offer for communication and collaboration

-use search technologies effectively, appreciate how results are selected and ranked, and be discerning in evaluating digital content

Presentation -Word, Publisher, PowerPoint

-create information document- famous people

-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, analysing, evaluating and





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								presenting data and
								information
Year 4	Slide, insert, font,	Bill Gates	Presentation -	Graphics	Programming -	Word	Programming -	Internet research
, , , ,	background, solid	Din Oures	PowerPoint	and design	Logo	W 0. 4	Scratch	and communication
	fill, gradient fill		T OWOLL OUT	and design	Logo	-import	oci u i cii	and communication
	7 m, gradient 7 m		-inserting web links	-pivot	-repeat, pen	graphics	-questions and	-order of returned
	Animation, frame,		-backgrounds	Animation	colour	(position and	quizzes	results
	scene,		-backgi ounds	Animarion	Coloui	align	quizzes	1 ESUITS
	scene,		-select, use and	-select, use	-design, write	-use the spell	-design, write and	-understand
	Procedure,		combine a variety of	and combine	and debug	checker	debug programs	computer networks
	algorithm, code,		software (including	a variety of	programs that	-use Find,	that accomplish	including the
			internet services) on	software	accomplish	search and	specific goals,	internet; how they
	setpos, coordinates,		· ·	(including	'		including	•
	· ·		a range of digital	, ,	specific goals,	replace if	_	can provide multiple
	random, fill, repeat		devices to design and	internet	including	appropriate	controlling or	services, such as the
	E Processing		create a range of	services) on	controlling or	-use Page Setup	simulating	world wide web; and
	Edit, copyright,		programs, systems	a range of	simulating	to choose	physical systems;	the opportunities
	format, table,		and content that	digital	physical	Portrait or	solve problems by	they offer for
	inset, column, row,		accomplish given	devices to	systems; solve	Landscape page	decomposing them	communication and
	cell, layout,		goals, including	design and	problems by	as appropriate	into smaller parts	collaboration
	orientation,		collecting, analysing,	create a	decomposing	-learn how to		
	portrait,		evaluating and	range of	them into	insert and use a	-use sequence,	-use search
	landscape,		presenting data and	programs,	smaller parts	simple table	selection, and	technologies
			information	systems and		-use the Zoom	repetition in	effectively,
	Visual,			content	-use sequence,	menu to view	programs; work	appreciate how
	decomposing,			that	selection, and	the whole page	with variables and	results are selected
	algorithm,			accomplish	repetition in		various forms of	and ranked, and be
	debugging,			given goals,	programs; work	-select, use and	input and output	discerning in
	sequence,			including	with variables	combine a		evaluating digital
	selection,			collecting,	and various	variety of	-use logical	content
	effective, sprite,			analysing,	forms of input	software	reasoning to	
	repetition,			evaluating	and output	(including	explain how some	Presentation -
	commands,			and		internet	simple algorithms	Word, Publisher,
	variable, sounds			presenting	-use logical	services) on a	work and to	PowerPoint
	library, assign,			data and	reasoning to	range of digital	detect and	
	numerical values,			information	explain how	devices to	correct errors in	





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	positive, negative,				some simple	design and	algorithms and	-create information
	appropriate,				algorithms work	create a range	programs	document- famous
					and to detect	of programs,		people
	Returned results,				and correct	systems and		
	trustworthy, spam,				errors in	content that		-select, use and
	rank, URL				algorithms and	accomplish given		combine a variety of
					programs	goals, including		software (including
						collecting,		internet services) on
						analysing,		a range of digital
						evaluating and		devices to design
						presenting data		and create a range
						and information		of programs,
								systems and content
								that accomplish
								given goals, including
								collecting, analysing,
								evaluating and
								presenting data and
								information
Year 5	Design,	Steve	Presentation -	Graphics	Radio stations	Publisher	Programming -	Internet research
	background,	Jobs	PowerPoint	and design			Scratch	and Communication
					-create and	-select, use and		
	Design,		-practise skills,	-sketch up	import sounds.	combine a	- create own	-design own web
	architectural		hyperlinks, actions,			variety of	video game	page
	designs, interior		transitions	-select, use	-select, use and	software		
	designs, landscape,			and combine	combine a	(including	-design, write and	-understand
	Computer program,		-select, use and	a variety of	variety of	internet	debug programs	computer networks
	3D,		combine a variety of	software	software	services) on a	that accomplish	including the
			software (including	(including	(including	range of digital	specific goals,	internet; how they
	.		internet services) on	internet	internet	devices to	including	can provide multiple
	Input, output,		a range of digital	services) on	services) on a	design and	controlling or	services, such as the
	record, skip to		devices to design and	a range of	range of digital	create a range	simulating	world wide web; and
	start, skip to end,		create a range of	digital	devices to	of programs,	physical systems;	the opportunities
	playback, jingle,		programs, systems	devices to	design and	systems and	solve problems by	they offer for
	podcast, download,		and content that	design and	create a range	content that	decomposing them	communication and
	advert/advertising,		accomplish given	create a range of	of programs,	accomplish given goals, including	into smaller parts	collaboration
	present, evaluate,		goals, including		systems and			





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		collecting, analysing,	programs,	content that	collecting,	-use sequence,	-use search
	Insert, document,	evaluating and	systems and	accomplish given	analysing,	selection, and	technologies
	open, text box,	presenting data and	content	goals, including	evaluating and	repetition in	effectively,
	font, align,	information	that	collecting,	presenting data	programs; work	appreciate how
			accomplish	analysing,	and information	with variables and	results are selected
	Sprite, backdrop,		given goals,	evaluating and		various forms of	and ranked, and be
	trigger, action,		including	presenting data		input and output	discerning in
	effects,		collecting,	and information			evaluating digital
	consequence,		analysing,			-use logical	content
	obstacle, code,		evaluating			reasoning to	
	costume, duplicate,		and			explain how some	Presentation -
	variable, debug,		presenting			simple algorithms	Word, Publisher,
			data and			work and to	PowerPoint
	Bookmarks,		information			detect and	
	favourites					correct errors in	-create information
						algorithms and	document- famous
						programs	people
							-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, analysing,
							evaluating and
							presenting data and
							information





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Year 6	Hyperlink, link,	Mark	Presentation -	Graphics	Programming -	Excel	Programming -	Internet research
	transition,	Zuckerberg	PowerPoint	and design	Kodu		Scratch	and communication
	animation, action			-stop		-spreadsheets		
			-transitions,	motion	-create own		-animated stories	-communication
	Animation, frame,		animation, links,		world/game	-select, use and		online
	scene, stop motion		actions	-select, use		combine a	-design, write and	
				and combine	-design, write	variety of	debug programs	-understand
	Icon, visual		-select, use and	a variety of	and debug	software	that accomplish	computer networks
	programming,		combine a variety of	software	programs that	(including	specific goals,	including the
	investigate, code,		software (including	(including	accomplish	internet	including	internet; how they
	instructions, genre,		internet services) on	internet	specific goals,	services) on a	controlling or	can provide multiple
	virtual world, tool		a range of digital	services) on	including	range of digital	simulating	services, such as the
	pallet,		devices to design and	a range of	controlling or	devices to	physical systems;	world wide web; and
	deconstruct, end		create a range of	digital	simulating	design and	solve problems by	the opportunities
	goal, start point,		programs, systems	devices to	physical	create a range	decomposing them	they offer for
	end point, program		and content that	design and	systems; solve	of programs,	into smaller parts	communication and
	design, compete,		accomplish given	create a	problems by	systems and		collaboration
	automatically		goals, including	range of	decomposing	content that	-use sequence,	
	controlled,		collecting, analysing,	programs,	them into	accomplish given	selection, and	-use search
			evaluating and	systems and	smaller parts	goals, including	repetition in	technologies
	Spreadsheet,		presenting data and	content		collecting,	programs; work	effectively,
	format, cell,		information	that	-use sequence,	analysing,	with variables and	appreciate how
	formula, calculate,			accomplish	selection, and	evaluating and	various forms of	results are selected
	toolbar, axis,			given goals,	repetition in	presenting data	input and output	and ranked, and be
	conditional,			including	programs; work	and information		discerning in
				collecting,	with variables		-use logical	evaluating digital
	Animate, sprite,			analysing,	and various		reasoning to	content
	repeat, broadcast,			evaluating	forms of input		explain how some	
	receive, reflected,			and	and output		simple algorithms	Presentation -
	horizontal, code,			presenting			work and to	Word, Publisher,
	deconstruct,			data and	-use logical		detect and	PowerPoint
	sequence,			information	reasoning to		correct errors in	
	backdrop,				explain how		algorithms and	-create information
	transition, audio,				some simple		programs	document- famous
	enhance,				algorithms work			people
	interactive,				and to detect			
					and correct			-select, use and
					errors in			combine a variety of





Online	algorithms and	software (including
commination,	programs	internet services) on
Online audience,		a range of digital
posting		devices to design
		and create a range
		of programs,
		systems and content
		that accomplish
		given goals, including
		collecting, analysing,
		evaluating and
		presenting data and
		information