

Progression of Skills and Vocabulary for Computing

Key Stage	Computer Science statements	Information Technology Statements	Digital Literacy Statements	
KS1	 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. 	
KS2	 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. recognise acceptable/ unacceptable behaviour; identify a range of ways to report concern about content and contact. 	

Early Years	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
	Children understand that an algorithm is a set of instructions used to solve a problem or achieve an objective. They know that an algorithm written for a computer is called a program. Children can work out what is wrong with a simple algorithm when the steps are out of order and can write their own simple algorithm. Children know that an unexpected outcome is due to the code they have created and can make logical attempts to fix the code. When looking at a program, children can read code one line at a time and make good attempts to envision the bigger picture of the overall effect of the program.	Children can explain that an algorithm is a set of instructions to complete a task. When designing simple programs, children show an awareness of the need to be precise with their algorithms so that they can be successfully converted into code. Children can create a simple program that achieves a specific purpose. They can also identify and correct some errors. Children's program design displays a growing awareness of the need for logical, programmable steps. Children can identify the parts of a program that respond to specific events and initiate specific actions. For example, they can write a cause-and-effect sentence of what will happen in a program.	Children can turn a simple real-life situation into an algorithm for a program by deconstructing it into manageable parts. Their design shows that they are thinking of the desired task and how this translates into code. Children can identify an error within their program that prevents it is following the desired algorithm and then fix it. Children demonstrate the ability to design and code a program that follows a simple sequence. They experiment with timers to achieve repetition effects in their programs. Children are beginning to understand the difference in the effect of using a timer command rather than a repeat command when creating repetition effects. Children understand how variables can be used to store information while a program is executing. Children's designs for their programs show that they are thinking of the structure of a program in logical, achievable steps and absorbing some new knowledge of coding structures. For example, 'if' statements, repetition and variables.	 When turning a real-life situation into an algorithm, the children's design shows that they are thinking of the required task and how to accomplish this in code using coding structures for selection and repetition. Children make more intuitive attempts to debug their own programs. Children's use of timers to achieve repetition effects are becoming more logical and are integrated into their program designs. They understand 'if statements' for selection and attempt to combine these with other coding structures including variables to achieve the effects that they design in their programs. As well as understanding how variables can be used to store information while a program is executing, they are able to use and manipulate the value of variables. Children can make use of user inputs and outputs such as 'print to screen'. Children's designs for their programs show that they are thinking of the structure of a program in logical, achievable steps and absorbing some new knowledge of coding structures. For example, 'if' statements, repetition and variables. 	Children may attempt to turn more complex real-life situations into algorithms for a program by deconstructing it into manageable parts. Children are able to test and debug their programs as they go and can use logical methods to identify the approximate cause of any bug but may need some support identifying the specific line of code. Children can translate algorithms that include sequence, selection and repetition into code with increasing ease and their own designs show that they are thinking of how to accomplish the set task in code utilising such structures. They are combining sequence, selection and repetition with other coding structures to achieve their algorithm design. When children code, they are beginning to think about their code structure in terms of the ability to debug and interpret the code later. Children understand the value of computer networks but are also aware of the main dangers. They recognise what personal information is and can explain how this can be kept safe.	Children are able to turn a more complex programming task into an algorithm by identifying the important aspects of the task (abstraction) and then decomposing them in a logical way using their knowledge of possible coding structures and applying skills from previous programs. Children test and debug their program as they go and use logical methods to identify the cause of bugs, demonstrating a systematic approach to try to identify a particular line of code causing a problem. Children translate algorithms that include sequence, selection and repetition into code and their own designs show that they are thinking of how to accomplish the set task in code utilising such structures, including nesting structures within each other. Coding displays and improving understanding of variables in coding, outputs such as sound and movement, inputs from the user of the program such as button clicks and the value of functions. Children are able to interpret a program in parts and can make logical attempts to put the separate parts of a complex algorithm together to explain the program as a whole.

Program They make good attempts to step-through more complex, code in order to identify errors in algorithms and can correct this. They can trace code and use step-through methods to identify errors in code and make logical attempts to correct this. Children understate appropriate correct this. Children understate the Wor consumption correct this. Children are able to sort, collate, edit and store simple digital content e.g. children can name, save and retrieve their work and follow simple instructions to access online Children demonstrate an ability to organise data using correct this areas Children can care due use step-through methods to communication. They can trace code and use step-through methods to communication. They can trace code and use step-through methods to communication. They can use some of these methods of communication, treespond to and attach files to conventions when conventions they are conventing earches to retrieve digital to the internet and using a appraise selected webpages for credibility webpages is and the information it contaion information it contain information it contain info	l can
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naming, saving and retrieving evaluate and present data and Children are able to appropriate improvements to are able to rate them	terms
content. Children use a range information using a selection make improvements digital solutions based on of content quality an	
2 of media in their digital of software. Children can to digital solutions feedback received and can accuracy.	
content including photos, text consider what software is based on feedback. confidently comment on the	
and sound. most appropriate for a given Children make informed success of the solution. e.g. Children use critical t	king
task. They can create software choices when creating their own program to skills in everyday use	online
9 purposeful content to attach presenting information meet a design brief. communication. Child	1 I
to emails. and data. They create make clear connection	to the
E linked content using They objectively review audience when desig	g and
a range of software. solutions from others. creating digital conte	
Children share digital content Children are able to	
within their community. collaboratively create content The children design a	create
and solutions using digital their own blogs to be	ne a
features within software such content creator on th	
as collaborative mode. They internet. e.g. 2Blog. T	/ are
are able to use several ways of able to use criteria to	aluate
sharing digital content the quality of digital	tions
and are able to ident	
improvement maki	ome
refinements	eine

Children understand what is	Children can effectively	Children demonstrate the	Children can explore	Children have a secure	Children demonstrate
meant by technology and can	retrieve relevant, purposeful	importance of having a secure	key concepts relating	knowledge of common online	the safe and respectful
identify a variety of examples	digital content using a search	password and not sharing this	to online safety using	safety rules and can apply this	use of a range of
both in and out of school.	engine.	with anyone else.	concept mapping.	by demonstrating the safe and	different technologies
				respectful use of a few	and online services.
They can make a distinction	They can apply their learning	Furthermore, children can	They can help others	different technologies and	
between objects that use	of effective searching beyond	explain the negative	to understand the	online services.	They identify more
modern technology and those	the classroom. They can share	implications of failure to keep	importance of online		discreet inappropriate
that do not e.g. a	this knowledge.	passwords safe and secure.	safety. Children know	Children implicitly relate	behaviours through
microwave vs. a chair.	0		a range of ways of	appropriate online behaviour	developing critical
	Children make links between	They understand the	reporting inappropriate	to their right to personal	thinking, e.g. 2Respond
Children understand the	technology they see around	importance of staving safe	content and contact	privacy and mental wellbeing	activities.
importance of keeping	them, coding and multimedia	and the importance of their		of themselves and others.	
information. such as their	work they do in school.	conduct when using familiar			They
usernames and passwords.	· · · · · · · · · · · · · · · · · · ·	communication tools. They			recognise the value in
private and actively	Children know the	know more than one way to			preserving their privacy
demonstrate this in lessons	implications of inappropriate	report unaccentable content			when online for their
	online searches Children	and contact			own and other people's
Children take ownership of	begin to understand how				safety
their work and save this in	things are shared				Survey.
their own private space	electronically				
their own private space.	cicculonically.				
	They develop an				
	understanding of using email				
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	reporting inappropriate				
	hoboviours and contant to a				
	trusted adult				
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	Early Years	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
	*For definitions, please see knowle	edge organisers					
		action	action	action	action	abstraction	action
		alert	algorithm	advance mode	alert	action	algorithm
		algorithm	attachment	alert	algorithm	algorithm	approval
		animation	background	algorithm	attachment	avatar	archive
		avatar	binary tree	analysis	average	bulleted lists	audience
		background	block graph	attachment	background	captions	audio
		button	bug	axis	budget	citation	auto fit
		calculations	button	background	button	collaborate	bit
		cell	cell	bar graph	campaign	concatenation	blog
		challenge	collision detection	BCC	citation	concept	blog post
		clip-art	column	binary tree	code blocks	connection	budget
		code	command	blog	collaborate	copy and paste	case-sensitive
		collect data	сору	branching database	command	copyright	cell
		column	count tool	bug	components	creative commons license	cell reference
		command	data	button	cookies	cursor	clone
		compare	database	CC	copyright	debug	cloze
		computer	debug	cell address	decimal place	decomposition	co-ordinates
		criteria	digital footprint	chart	design	design brief	collaborate
		data	domain	code	digital footprint	efficient	command
_		debugging	drag	collision detection event	execute	encrypt	commenting
		device	E-book	command	flowchart	evaluation	computational model
n		direction	email	compose	font	event	conditional formatting
q		E-book	equal	data	format	field	data analysis
ů Š		edit	event	database	format cell	flowchart	debug
Š		execute	execute	debug	formula	font	decomposition
		file name	field	decision	formular wizard	format	delimiter
		font	filter	evaluation	frame	formatting	dice tool
		groups	implement	event	genre	formular wizard	digit
		icon	instructions	flowchart	hard drive	function	digital footprint
		instructions	interaction	font formatting	implement	hyperlink	execute
		image	internet	implement	input	identify theft	expense
		lock cell	interval	inbox	internet	input	flowchart
		log in	label	interval	key words	instructions	format cell
		log out	network	keys	malware	malware	formular wizard
		menu	node	layer	motherboard	merge cells	function
		my work area	object	modelling	multi-line mode	nesting	horizontal axis
		notification	output	nesting	nest	net	hub/switch
		output	personal information	password	network card	node	inappropriate
		password	pictogram	permission	onion skinning	output	input
		pictograms	presentation	pie chart	opinion	ownership	integer
		plan		posture	output	page orientation	launch command
		private		predict	pause	password	local area network (LAN)
		program		presentation	percentage	PEGI rating	location sharing
		route		properties	peripherals	personal information	network
		row		reputable source	phishing	phishing	output
		run		run	plagiarism	physical system	password

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CMPS Progression of Skills and Vocabulary for Computing

	sort	private information properties	save to draft	prodict	proportios	phiching
	sound offect	private information properties	save to trait	predict	properties	pristing
	sound effect	question	scene	procedure	quest	predict
	spreadsneet	record	sequence	prompt	readability	preview
	technology	row	simulation	RAM	reliable source	print screen
	text	run	slideshow	ransomware	scene	probability
	title	search	space bar	reliability	screenshot	procedure
	undo	search engine	spoof	results page	sequence	profit
	unit	secure	spreadsheet	run	simplify	properties
	value	sharing	transition	search engine	spoof	range
		sort	trusted contact	selection	statistics	repeat
2		table	typing	sequence	template	router
L/		total	verify	software	text wrapping	screen time
ula		web address	vlog	spam	texture	secure website
pι		web page	website	variable	theme	selection
ca		web site	word art	viewpoint	validity	sequence
<u>ر</u> ه		world wide web		virus	variable	simulation
				watermark	word processing tool	spoof
						sprite
						tab
						text-based adventure
						transistor
						variable
						vertical axis
						vlog
						wi-fi
						wide area network (WAN)
						world wide web