

Computing Progression of Skills

Skill focus	EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Computer	Problem solving:	Problem solving:	Problem Solving:	Problem Solving:	Problem Solving:	Problem Solving:	Problem Solving:
Science	- Make choices about	- Understand what	- Understand what	- Design, write and			
	the buttons/icons to	algorithms are	algorithms are	debug programs that	debug programs that	debug programs that	debug programs that
Problem	press, touch or click on	- Understand how	- Understand how	accomplish specific goals	accomplish specific goals	accomplish specific goals	accomplish specific goals
	when using simple	algorithms are	algorithms are	- Controlling or	- Controlling or	- Controlling or	- Controlling or
solving	software/hardware	implemented as	implemented as	simulating physical	simulating physical	simulating physical	simulating physical
 Programming 	- Give	programs on digital	programs on digital	systems	systems	systems	systems
Logical	commands/instructions	devices	devices	- Solve problems by			
thinking	e.g. forward,			decomposing them into	decomposing them into	decomposing them into	decomposing them into
	backwards, go, stop,			smaller parts	smaller parts	smaller parts	smaller parts
	when using simple software/hardware						
	Software/flatuware	Programming:	Programming:	Programming:	Programming:	Programming:	Programming:
	Programming:	- Create and debug	- Create and debug	- Use sequence,	- Use sequence,	- Use sequence,	- Use sequence,
	Completes a simple	simple programs.	simple programs	selection and repetition	selection and repetition	selection, and repetition	selection, and repetition
	program on a	Simple programor	Simple programs	in programs; work with			
	computer.			variables	variables	variables	variables
	'			- Work with various			
				forms of input and			
				output	output	output	output
		Logical Thinking:	Logical Thinking:	Logical Thinking:	Logical Thinking:	Logical Thinking:	Logical Thinking:
		- Use logical reasoning	- Use logical reasoning	- Use logical reasoning to			
		to predict the	to predict the	explain how some simple			
		behaviour of simple	behaviour of simple	algorithms work	algorithms work.	algorithms work	algorithms work
		programs	programs	- Use logical reasoning to			
				detect and correct errors			
				in algorithms and	in algorithms and	in algorithms and	in algorithms and
				programs	programs.	programs	programs
				- Understand computer	Understand computer	- Understand computer	- Understand computer
				networks including the	networks including the	networks including the	networks including the
				internet	internet	internet	internet
				- Understand how	- Understand how	- Understand how	- Understand how
				networks can provide	networks can provide	networks can provide	networks can provide multiple services, such as
				multiple services, such as the world wide web	multiple services, such as the world wide web	multiple services, such as the world wide web	the world wide web
				the world wide web			

Digital	E-safety:	E-safety:	E-Safety:	E-Safety:	E- Safety:	E-Safety:	E-Safety:
Literacy	- Use technology safely	- Use technology	- Use technology	- Use technology safely,			
,	and respectfully	safely and respectfully	safely and respectfully	respectfully and	respectfully and	respectfully and	respectfully and
	- Identify where to go	- Keeping personal	- Keeping personal	responsibly	responsibly	responsibly	responsibly
 E-safety 	for help and support	information private.	information private	- Recognise	- Recognise	- Recognise	- Recognise
 Using IT 	when they have	- Identify where to go	- Identify where to go	acceptable/unacceptable	acceptable/unacceptable	acceptable/unacceptable	acceptable/unacceptable
beyond	concerns about	for help and support	for help and support	behaviour	behaviour	behaviour	behaviour
school	content or contact on	when they have	when they have	- Know a range of ways			
	the internet or other	concerns about	concerns about	to report concerns and			
	online technologies.	content or contact on	content or contact on	inappropriate behaviour	inappropriate behaviour	inappropriate behaviour	inappropriate behaviour
		the internet or other	the internet or other	- Be discerning in			
		online technologies.	online technologies	evaluating digital content	evaluating digital content	evaluating digital content	evaluating digital content
				- Understand the	- Understand the	- Understand the	- Understand the
				opportunities networks	opportunities networks	opportunities networks	opportunities networks
				offer for communication	offer for communication	offer for communication	offer for communication
				and collaboration	and collaboration.	and collaboration	and collaboration
	Heine IT havend	Using IT havend	Using IT Dayland				
	Using IT beyond school:	Using IT beyond school:	Using IT Beyond School				
	-Recognise technology	- Recognise common	- Recognise common				
	that is used at home	uses of information	uses of information				
	and in school.	technology beyond	technology beyond				
	- Understand what a	school	school				
	computer is and the						
	different uses of						
	computers e.g. learning,						
	communicating, finding						
	information, playing						
	games etc. Reception						
	-Experience a range of						
	technology and learn						
	how to use it in a safe						
Information	way. Creating content:	Creating content:	Creating Content:	Creating Content:	Creating Content:	Creating Content:	Creating Content:
Technology	-Manages a device by	- Use technology	- Use technology	- Select, use and			
	correctly closing	purposefully to	purposefully to	combine a variety of			
	websites or apps and	organise, store and	organise, store and	software (including	software (including	software (including	software (including
Creating	safely turning on and	retrieve digital	retrieve digital	internet services) on a			
content	off.	content	content	range of digital devices			
Searching	-Input commands using		- Use technology	- Design and create a			
	the space bar,		purposefully to create	range of programs,	range of programs,	range of programs,	range of programs,
	backspace, enter,		and manipulate digital	systems and content	systems and content	systems and content	systems and content
	letters and numbers on a keyboard on any		content	that accomplish given	that accomplish given	that accomplish given	that accomplish given goals
	a keyboard on any			goals	goals	goals	guais

	device (including on a	- Collecting, analysing,	- Collecting, analysing,	- Collecting, analysing,	- Collecting, analysing,
	tablet).	evaluating and	evaluating and	evaluating and	evaluating and
	-Input commands using	presenting data and	presenting data and	presenting data and	presenting data and
	a mouse to control a	information	information	information	information
	cursor and use the left				
	click to select options				
	OR use finger control				
	to interact with a tablet				
	(double tap, swipe)				
	-Experiences simple				
	apps and software and				
	use these to present				
	ideas.				
		Searching:	Searching:	Searching:	Searching:
	Searching:	- Use search	- Use search	- Use search	- Use search
	- Knows that	technologies effectively	technologies effectively	technologies effectively	technologies effectively
	information can be	- Appreciate how search			
	retrieved from	results are selected and			
	computers.	ranked	ranked	ranked	ranked