

<u>Computing Progression of Skills – Years 1-6</u>



	Year 1	Year 2	Year 3	Year 4	Year 5	TRUST Year 6
Computer Systems and Networks	Technology around us To identify technology To identify a computer and its main parts To use a mouse in different ways To use a keyboard to type To use the keyboard to edit text To create rules for using technology responsibly	Information technology around us To recognise the uses and features of information technology To identify information technology in the home To identify information technology beyond school To explain how information technology benefits us To show how to use information technology safely To recognise that choices are made when using information technology	Connecting computers To explain how digital devices function To identify input and output devices To recognise how digital devices can change the way we work To explain how a computer network can be used to share information To explore how digital devices can be connected To recognise the physical components of a network	The internet To describe how networks physically connect to other networks To recognise how networked devices make up the internet To outline how websites can be shared via the World Wide Web To describe how content can be added and accessed on the World Wide Web To recognise how the content of the WWW is created by people To evaluate the consequences of unreliable content	Sharing information To explain that computers can be connected together to form systems To recognise the role of computer systems in our lives To recognise how information is transferred over the internet To explain how sharing information online lets people in different places work together To contribute to a shared project online To evaluate different ways of working together online	Communication To identify how to use a search engine To describe how search engines select results To describe how search engines select results To explain how search results are ranked To recognise why the order of results is important, and to whom To recognise how we communicate using technology To evaluate different methods of online communication



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Creating	Digital painting	Digital	Stop-frame	Audio editing	Video editing	Web page creation
		photography	animation	_		
Media	To describe what			To identify that sound	To recognise video	To review an existing
	different freehand	To know what	To explain that	can be digitally	as moving pictures,	website and consider
	tools do	devices can be used	animation is a	recorded	which can include	its structure
	To use the shape	to take	sequence of	To use a digital device	audio	To plan the features of
	tool and the line	photographs	drawings or	to record sound	To identify digital	a web page
	tools	To use a digital	photographs	To explain that a	devices that can	To consider the
	To make careful	device to take a	To relate animated	digital recording is	record video	ownership and use of
	choices when	photograph	movement with a	stored as a file	To capture video	images (copyright)
	painting a digital	To describe what	sequence of images	To explain that audio	using a digital	To recognise the need
	picture	makes a good	To plan an	can be changed	device	to preview pages
	To explain why I	photograph	animation	through editing	To recognise the	To outline the need for
	chose the tools I	To decide how	To identify the	To show that different	features of an	a navigation path
	used	photographs can	need to work	types of audio can be	effective video	To recognise the
	To use a computer	be improved	consistently and	combined and played	To identify that	implications of linking
	on my own to	To use tools to	carefully	together	video can be	to content owned by
	paint a picture	change an image	To review and	To evaluate editing	improved through	other people
	To compare	To recognise that	improve an	choices made	reshooting and	
	painting a picture	images can be	animation		editing	3D modelling
	on a computer	changed	To evaluate the	Photo editing	To consider the	
	and on paper		impact of adding		impact of the	To use a computer to
		Making music	other media to an	To explain that digital	choices made when	create and manipulate
	Digital writing		animation	images can be	making and sharing	three-dimensional (3D)
		To say how music		changed	a video	digital objects
	To use a computer	can make us feel	Desktop	To change the		To compare working
	to write	To identify that	publishing	composition of an	Vector drawing	digitally with 2D and
	To add and	there are patterns		image		3D graphics
	remove text on a	in music	To recognise how	To describe how	To identify that	To construct a digital
	computer	To describe how	text and images	images can be	drawing tools can	3D model of a physical
	To identify that	music can be used	convey information	changed for different	be used to produce	object
	the look of text	in different ways	To recognise that	uses	different outcomes	To identify that
	can be changed on	To show how	text and layout can	To make good choices	To create a vector	physical objects can be
	a computer	music is made	be edited	when selecting	drawing by	broken down into a
	To make careful	from a series of	To choose	different tools	combining shapes	collection of 3D shapes
	choices when	notes	appropriate page	To recognise that not	To use tools to	To design a digital
	changing text	To create music for	settings	all images are real	achieve a desired	model by combining
		a purpose			effect	3D objects



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	To explain why I used the tools that I chose To compare writing on a computer with writing on paper	To review and refine our computer work	To add content to a desktop publishing publication To consider how different layouts can suit different purposes To consider the benefits of desktop publishing	To evaluate how changes can improve an image	To recognise that vector drawings consist of layers To group objects to make them easier to work with To evaluate my vector drawing	To develop and improve a digital 3D model
Data and Information	Grouping data To label objects To identify that objects can be counted To describe objects in different ways To count objects with the same properties To compare groups of objects To answer questions about groups of objects	Pictograms To recognise that we can count and compare objects using tally charts To recognise that objects can be represented as pictures To create a pictogram To select objects by attribute and make comparisons To recognise that people can be described by attributes To explain that we can present information using a computer	Branching databases To create questions with yes/no answers To identify the object attributes needed to collect relevant data To create a branching database To identify objects using a branching database To explain why it is helpful for a database to be well structured To compare the information shown in a pictogram with a branching database	Data logging To explain that data gathered over time can be used to answer questions To use a digital device to collect data automatically To explain that a data logger collects 'data points' from sensors over time To use data collected over a long duration to find information To identify the data needed to answer questions To use collected data to answer questions	Flat-file databases To use a form to record information To compare paper and computer- based databases To outline how grouping and then sorting data allows us to answer questions To explain that tools can be used to select specific data To explain that computer programs can be used to compare data visually To apply my knowledge of a database to ask and answer real-world questions	Spreadsheets To identify questions which can be answered using data To explain that objects can be described using data To explain that formula can be used to produce calculated data To apply formulas to data, including duplicating To create a spreadsheet to plan an event To choose suitable ways to present data







consistent consistential encloses in the Academic sample for the						TRUST
Programming	Moving a robot	Robot	Sequence in	Repetition in	Selection in	Variables in games
		algorithms	music	shapes	physical	
	To explain what a				computing	To define a 'variable' as
	given command	To describe a series	To explore a new	To identify that		something that is
	will do	of instructions as a	programming	accuracy in	To control a simple	changeable
	To act out a given	sequence	environment	programming is	circuit connected to	To explain why a
	word	To explain what	I can identify that	important	a computer	variable is used in a
	To combine	happens when we	each sprite is	To create a program	To write a program	program
	forwards and	change the order of	controlled by the	in a text-based	that includes count-	To choose how to
	backwards	instructions	commands I choose	language	controlled loops	improve a game by
	commands to	To use logical	To explain that a	To explain what	To explain that a	using variables
	make a sequence	reasoning to	program has a start	'repeat' means	loop can stop when	To design a project that
	To combine four	predict the	To recognise that a	To modify a count-	a condition is met,	builds on a given
	direction	outcome of a	sequence of	controlled loop to	eg number of times	example
	commands to	program (series of	commands can	produce a given	To conclude that a	To use my design to
	make sequences	commands)	have an order	outcome	loop can be used to	create a project
	To plan a simple	To explain that	To change the	To decompose a	repeatedly check	To evaluate my project
	program	programming	appearance of my	program into parts	whether a condition	To evaluate my project
	To find more than	projects can have	project	To create a program	has been met	Sensing
	one solution to a	code and artwork	To create a project	that uses count-	To design a physical	Sensing
	problem	To design an	from a task	controlled loops to	project that	To create a program to
	problem	algorithm	description	produce a given	includes selection	run on a controllable
	Introduction to	To create and	description	outcome	To create a	device
	animation	debug a program	Events and	outcome	controllable system	To explain that
	ummuton	that I have written	actions	Repetition in	that includes	selection can control
	To choose a	that I have written	uctions	games	selection	the flow of a program
	command for a	Introduction to	To explain how a	Sumes	Sciection	To update a variable
	given purpose	quizzes	sprite moves in an	To develop the use of	Selection in	with a user input
	To show that a	quilles	existing project	count-controlled	games	To use an conditional
	series of	To explain that a	To create a	loops in a different	Sumes	statement to compare a
	commands can be	sequence of	program to move a	programming	To explain how	variable to a value
	joined together	commands has a	sprite in four	environment	selection is used in	To design a project that
	To identify the	start	directions	To explain that in	computer programs	uses inputs and
	effect of changing	To explain that a	To adapt a program	programming there	To relate that a	outputs on a
	a value	sequence of	to a new context	are infinite loops and	conditional	controllable device
	To explain that	commands has an	To develop my	count controlled	statement connects	To develop a program
	each sprite has its	outcome	program by adding	loops	a condition to an	to use inputs and
	own instructions	outcome	features	To develop a design	outcome	outputs on a
	own mon uctions		icaluics	which includes two or	outcome	controllable device
			1	which includes two or		controllable device







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To design the	To create a	To identify and fix	more loops which run	To explain how	
parts of a project	program using a	bugs in a program	at the same time	selection directs the	
To use my	given design	To design and	To modify an infinite	flow of a program	
algorithm to	To change a given	create a maze-	loop in a given	To design a	
create a program	design	based challenge	program	program which uses	
	To create a		To design a project	selection	
	program using my		that includes	To create a program	
	own design		repetition	which uses	
	To decide how my		To create a project	selection	
	project can be		that includes	To evaluate my	
	improved		repetition	program	