## **Computing Progression**



EY	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Understand that computers and devices are made up of different components		Recognise common uses of digital technology beyond schools.	Explain how networks for digital devices can be used to share information.	Describe how networked devices connect to make up the internet.	Explain how computers can be connected together to form systems.	Describe how search engines select results.  Explain how search
components.		Recognise how information technology benefits people.	Explain how the concepts of input, process and output are fundamental to all digital devices.	Explain how websites can be shared, stored, accessed and added to on the World Wide Web.  Frame questions and identify key word searches to search	Explain the role of computer systems in our lives.  Explain how information is shared over the internet.	results are ranked and why the order of results is important.
				internet.		
			Core Skills			
Open and use simple apps on an ipad	Switch and log on and off a computer.	Log onto a computer using a unique	Create and name folders.			Create and manage their own passwords for logging onto a
Use a mouse or finger to make something happen on the screen e.g. paint,	Use a mouse to click and drag, open a program and create a picture.	password.  Make corrections or undo changes.	Navigate file pathways to save and open work.			computer (and other sites or applications where applicable).
	Identify, find and use	Highlight and select	Save documents into different formats.			
to scan a QR code	accurately: letters, numerals, shift (to	text to make changes e.g. colour, size, font, bold, italics	Use the cut, copy and paste function.			
Use a digital device to capture photos and videos	letter).	Using both hands, type and edit				
	simple words on a	sentences on a computer.				
	Save work to a file	Identify, find and use the following keys accurately: space				
	Understand that computers and devices are made up of different components.  Open and use simple apps on an ipad  Use a mouse or finger to make something happen on the screen e.g. paint, click on an object.  Use a digital device to scan a QR code  Use a digital device to capture photos	Understand that computers and devices are made up of different components.  Open and use simple apps on an ipad  Use a mouse or finger to make something happen on the screen e.g. paint, click on an object.  Use a digital device to scan a QR code  Use a digital device to capture photos and videos  Switch and log on and off a computer.  Use a mouse to click and drag, open a program and create a picture.  Identify, find and use the following keys accurately: letters, numerals, shift (to create a capital letter).  Type their name and simple words on a computer.	Understand that computers and devices are made up of different components.  Open and use simple apps on an ipad  Use a mouse or finger to make something happen on the screen e.g. paint, click on an object.  Use a digital device to scan a QR code  Use a digital device to capture photos and videos  Switch and log on and off a computer.  Use a mouse to click and drag, open a program and create a picture.  Use a mouse to click and drag, open a program and create a picture.  Use a digital device to scan a QR code  Use a digital device to capture photos and videos  Recognise common uses of digital technology beyond schools.  Recognise how information technology benefits people.  Use a mouse to click and drag, open a program and create a picture.  Use a mouse to click and drag, open a program and create a picture.  Identify, find and use the following keys accurately: letters, numerals, shift (to create a capital letter).  Type their name and simple words on a computer.  Save work to a file	Understand that computers and devices are made up of different components.  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Highlight and select text to make changes e.g. colour, size, font, bold, italics  Type their name and simple words on a computer.  Save work to a file  Save work to a file  Save work to a file  Explain how the concepts of input, process and output and the vide Web.  Explain how the concepts of input, process and output and the vide Web.  Explain how websites can be shared, stored, accessed and added to on the World Wide Web.  Explain how websites can be san between connect to make up the internet.  Explain how websites can be used to shared in process and output are fundamental to all devices.  Explain how websites can be used to shared.  Explain how webites can be used to shared.  Explain how websites can be used to shared.  Explain how websites can be used to shared.  Explain how websites.  Save and save and added to on the World Wide Web.  Navigate file pathways to save and open work.  Save documents i

	Open work from a file	bar, enter and				
	with support.	backspace.				
		Save work to a file.				
		Open work from a file.				
		Print work using the drop down menu.				
To approach computi	ing including problem s		nersistence resilience	and confidence		
	e their computing skill				ng and knowledge.	
		<b>,</b>			·9 ····· · · · · · · · · · · · · · · ·	
			Multimedia			
Music: Use music software to explore and arrange digital sounds	Painting Select from a range of appropriate paint tools and colours to paint a digital picture.	Photography Use a digital device to compose and capture photos for a purpose.	Desktop Publishing Plan and create a presentation for a purpose, which includes text, images/photos,	Image/Photo editing Change the composition of an image/photo for a purpose.	Vector Drawing Create a vector drawing by combining shapes in layers.	Web Page Creati Recognise the features and structure of a web page.
Painting: Use a range of appropriate paint tools and colours to paint a digital picture	Pictograms Use digital pictograms to answer questions.  Use collected data to create a pictogram on a digital device for a purpose.	Use digital tools to make effective changes to photos.  Music Record and add sound to digital pictures or text.  Use music software to arrange digital sounds to create and play a composition.	transition effects and hyperlinks.  Import images from a file or the internet into their work.  Resize, crop and rotate images/photos effectively.  Effectively layout and edit the content in a presentation to	Use retouching tools to improve images and consider which tools are appropriate for retouching.  Databases Compare paper and computer-based databases  Explain what a 'field' and 'record' is in a database.	Use zoom, resize and modification tools to achieve a desired effect.  Spreadsheets Answer questions from an existing data set.  Build a data set in a spreadsheet application.	Plan, create, revie and improve an effective website.  Plan and create multiple webpages with clear navigati paths, using hyperlinks to link pages together.
			engage and communicate to the audience more clearly.  Animation	Outline how 'AND' and 'OR' can be used to refine data selection.	Construct formulae in spreadsheets (e.g. =SUM) to produce calculated data for a purpose.	
			Plan, create, review and improve an effective stop frame animation.	Apply knowledge of a database to ask and answer real-world questions.	Use spreadsheets to create graphs for a purpose.	

Self Image and Identi	ty					
Describe that they are allowed to say if they don't like something and who they could tell	Understand when and how to speak to a trusted adult if they don't like something online.	Give examples of issues online and how they might get help.	Take appropriate measures to protect their own online identity.	Understand that people may have a different online identity to that in real life.	Understand how and why their identity can be copied by other users.	Understand the negative consequence of sharing nude selfies.
Online Relationships						
·	Understand how to use the internet (with support) to communicate with people they know respectfully.	Understand how to use the internet to communicate with people they don't know online.	Understand the risks of communicating with someone they don't know online.	Understand how to respectfully communicate with and about others online.	Understand how to make a positive contribution to their online community.	Understand how to be mindful of others' feelings in different contexts online.  Understand how and why people that they communicate with online may try to influence others negatively.
Online Reputation						
Identify some of the types of things that can be put online e.g. photos, videos but not an apple or colouring book	Describe what information they should not put online.	Understand that information online can stay there forever.	Understand what personal information is safe and unsafe to share online.	Understand that fake personal information can be created, copied and shared online.	Understand that judgements are made about people based on their online information.	Understand how to create a positive online reputation.
Online Bullying						
Describe ways in which some people can be unkind online and know how this can make others feels.	Describe how to behave online in ways that do not upset others.	Understand what online bullying can look like and some strategies for dealing with it.	Understand how technology can be used for online bullying.	Understand the impact of online bullying and the actions to take.	Understand when and how to get help for someone that is being bullied online.	Understand how to capture evidence of online bullying and how to report it.
Managing Online Info	rmation					
Begin to understand how to use the internet to find things out and identify devices which can be used	Understand how to find things out by typing in a simple keyword in a search engine.	Understand that not all information online is true.	Understand how to make accurate online searches.	Critically evaluate whether or not information online is true.	Critically evaluate whether false information online is intentional or unintentional.	Use strategies to analyse and evaluate the validity of information online.
Health, Well-being an	d Lifestyle	·				
Identify rules to keep them safe and healthy when using technology.	Identify rules to keep them safe when using technology.	Identify guidelines for using technology safely in different settings.	Understand how spending too much time using technology can have	Identify strategies to limit their time on technology.	Understand the negative impact that technology can have on their sleep.	Understand the purpose of systems that regulate agerelated content.

			a negative impact on			
			them.			
<b>Privacy and Security</b>						
Identify some types of personal information that need to be private	Identify types of personal information that need to be private.	Explain what passwords are used for and to use them.	Know who they should and shouldn't be sharing information with and why.	Understand the measures to take to prevent people accessing their data.	Understand how some apps and games take payment for additional information.	Understand ways i which data can be kept private and secure.
<b>Copyright and Owner</b>	ship					
Understand the work they create using technology belongs to them.	Explain why work they create using technology belongs to them.	Recognise that content on the internet may belong to other people.	Understand the issues caused by copying someone's work without permission.	Identify whether or not they have the right to reuse content from the internet.	Demonstrate how to make references to and acknowledge sources they have used from the internet.	N/A

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	Floor Robots	Floor Robots	Scratch Junior	Scratch 3	Scratch 3/Crumbles	Scratch	Scratch 3/Crumbles
	Explore floor	(or/and a digital	Identify and explain	Recognise that a range	Decompose programs	3/Crumbles	Decompose programs
	robots.	representation)	that a sequence of	of objects (e.g. Sprites,	to understand that	Decompose	that include variables
		Match a command to	commands has a start.	backdrops) in a	repetition means	programs to	that can be changed to
	Match a	an outcome.		programming	repeating a sequence	understand that	predict the outcome of
	command to an		Match two sequences	environment have	a certain number of	selection uses	a sequence.
	outcome	Use logical	of commands with the	attributes linked to them.	times or until a specific	conditions to	
		reasoning to predict	same outcome.		result is achieved.	control the flow of a	Design and create
	Begin to	the outcome of a		Recognise how different		sequence.	programs that include
	combine	sequence of	Change the outcome	commands are	Design and create		variables including
	directional	commands.	of a sequence of	represented in a	programs that use	Design and create	those that control a
	commands to		commands.	programming	repetition including	programs that use	physical system
	make a	Combine directional		environment (as blocks	those that control a	selection to direct	(Crumbles - link to DT
	sequence	commands to make	Create a program (by	in Scratch).	physical system	the flow of a	Mountain Buggy
	'	a sequence.	deciding which 'blocks'	,	(Crumbles - Sparkles -	program ('if' and	project).
		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	to use and building a	Control objects in a	link to DT – fairground	'if else'	
l ਨ		Design and create an	sequence) to meet a	programming	project).	statements)	Test, evaluate, debug
ğ		algorithm to meet a	given design.	environment using a	μ. ο, σ. σ.,	including those that	and improve their own
<u> </u>		specific goal.	given deeign	sequence of connected	Test, evaluate, debug	control a physical	programmed
Programming		opcomo goan	Design and create a	commands.	and improve their own	system (Crumbles).	sequences that include
≅.		Test and debug a	program using their	communico.	programmed	gyotom ( <i>Grambiod)</i> .	variables.
βι		simple program.	own design.	Explain how the objects	sequences that use	Test, evaluate,	variables.
		ompie program.	own dodigm	in a program will	repetition.	debug and improve	
			Test, debug and	respond exactly to the	Topoution.	their own	
			improve simple	code.		programmed	
			programs created by	code.		sequences that use	
			others and begin to	Use a variety of inputs		selection.	
			find and correct errors	(command blocks) to		Selection.	
			in their own programs.	control a variety of			
				outputs (e.g. sound,			
				motion, speech).			
				Took avaluate dale :			
				Test, evaluate, debug			
				and improve			
				programmed sequences			
				created by others and			
				their own.			