## **Computing Progression**



	KS1	Year 3/4	Year 5/6		
	Identify what things count as personal information	Reflect on their roles as digital citizens and reflect on	Protect their password and other personal		
	Identify what is appropriate and inappropriate behaviour on the internet	how they are responsible for themselves and others when working online	information  Recognise how to be a good online citizen and friend		
	Agree and follow sensible online safety rules	Identify what is appropriate and inappropriate behaviour on the internet, recognize the term	understanding how to communicate in a responsible and respectful way		
	Know to seek help from an adult when they see something that is unexpected or worrying	cyberbullying  Demonstrate understanding of age-appropriate	Judge what sort of privacy settings might be relevant to reducing different risks, decode website privacy		
ity	Open and close applications safely and log on and log off from websites;	websites and adverts  Make good passwords for their accounts, learn about	policies, understanding the implications for the info that they share online		
E-safety	Use agreed search engine to find specific information	spam and how to deal with it.	Discuss scenarios involving online risk		
Ú	to answer a question or area of enquiry	Begin to understand the implications for the information that they share online and how some	Create secure passwords for their accounts, learn about spam and how to deal with it		
		websites might use that information without their knowledge	Begin to explore the nature of online audiences and permanency of information online.		
			Begin to understand the significance of published information and personal information		
			Understanding how to prevent and respond to cyberbullying.		

Give commands one at a time to control direction and movement, including straight, forwards, backwards, turn using a basic floor or online robot

Develop more complex algorithms by controlling the nature of events: repeat, loops, single events and add and delete features

Give a set of instructions to follow and predict what will happen

Begin to debug algorithms to improve/change commands

Extension: Create a 3D environment, using a graphical language such as Kodu. Link this to a story such as an island adventure

Use logical thinking to solve an open-ended problem by breaking it into smaller parts

Write a simple algorithm to achieve a specific outcome

keep testing a program, recognising when it needs to be debugged

Use variables to create an effect, e.g. repetition, if, when, loop

Use graphical programming language, e.g. Scratch or Logo, to draw regular 2D shapes

Sequence instructions, for instance to create an animation using Scratch, or by using the timing features in PowerPoint

Use flowcharting software (such as Go or Flowgo) to create a simple program to control an onscreen icon

Extension : Create a simple game using a graphical language such as Kodu or Scratch

Use external triggers and infinite loops to demonstrate control

Follow a sequence of instructions, e.g. in a flowchart and modify a flowchart using symbols

Use conditional statements and edit variables

decompose a problem into smaller parts to design an algorithm for a specific outcome and use this to write a program

Explain how their program works

Pupils create a computer game, using a graphical language such as Scratch or Kodu

Extension: Use and program a raspberry pi to complete a basic task

		Use a digital device to take a photo	Use software to record, create and edit sounds and	Use software to create an e-book, brochure or
		ose a digital device to take a prioto	·	·
		Use software to record sounds	capture still images	poster on a given subject, incorporating a range of
			Use software to create an e-book, brochure or poster	media
		Change sounds	on a given subject	Write and deliver a presentation, incorporating a
		Save, retrieve and organise work		range of media
dia			Write and deliver a presentation on a given subject	
	B	Use basic word processing package to write sentences	Develop a storyboard to create a simple animation e.g. 'Puppet Pals' or 'Stop Motions' Animation'	Adapt or create images to enhance or further develop their work, incorporating it in a wider
5	<u>=</u>	Create and modify pictures and animations using		project
Multi-media	ב-ובו- בו-ובו-	simple drawing software	Record and edit media to create a short film or sound recording	Develop a storyboard to create a simple animation; editing the final product in using video editing
	Σ	Explore online simulations e.g. Charlie Chimp	Change recorded sounds, volume, duration and pauses	software
				Record and edit media to create a short sequence, editing the final product in using video editing software
				Use a digital device to record sounds and present audio, edit to improve quality
		Use software package to create pictograms	Talk about the different ways data can be organised	Construct data selecting the most appropriate
Handling Data	_		Sort and organise information to use in other ways	application
	g Date		Search a ready-made database to answer questions	Interpret data, e.g. noticing inaccurate data, comparing data
				Use keyboard shortcuts and functions to input data on spreadsheets and create formulas for spreadsheets
				Add data to an existing database

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Recognise ways that technology is used in the home and community, e.g. use of the internet, taking photos, blogs, shopping

Recognise and use age-appropriate websites

Explain ways to communicate with others online e.g. blogging ,mailing and working on shared documents using the pupil sites of the DLG

Use search tools to find and use an appropriate website and content

Use strategies to improve results when searching online

Make choices about told and devices used considering purpose

Learn that connected devices exchange packets of data and this can convey a range of information from a text to a video call

Search for information using appropriate websites and advanced search functions as appropriate

Use strategies to check the reliability of information e.g. cross check with another source

Begin to analyse and evaluate the usefulness and relevancy of online search results

Evaluate websites, online information and advertising by rating the trustworthiness and usefulness of websites

Understand copyright and acknowledge the sources of information to avoid plagarism