## Computing Progression – Landscape View

	Early Years		Year I/2	Year 3/4	Year 5/6
	Repeat an action with technology to trigger a specific outcome		Understand and describe what an algorithm is.	Design and write programs that accomplish specific goals including controlling or simulating physical systems	Design & write programs by turnin a real life situation into an algorith
r Science)	Recognise the success or failure of an action	r Science)	To create a simple algorithm (1-2 steps)	De-bug simple algorithms by using logical reasoning	Solve coding problems by decomposing them into smaller parts.
Code (Computer	Follow simple instructions to control a digital device	Code (Computer	To debug a simple algorithm (correct errors)	Use sequence, selection and repetition in programs	Read and predict other people's codes
<b>Strand</b> – To Co	Understand that we control computers	<b>Strand –</b> To Co	Use logical reasoning to predict the behaviour of simple algorithms	Work with variables and various forms of input and output	De-bug increasingly complex algorithms by using logical steps
Str		Str		Use specified number of steps to travel, direction, turns & screen coordinates to control movement	

	Early Years		Year I/2	Year 3/4	Year 5/6
	Can distinguish between text, image, video and audio content		Recognise common uses of IT beyond school	Understand the function, features and layout of a search engine.	Appraise web pages for credibility
	Sort familiar objects into 1 or more categories		Use technology safely online, keeping personal information private	Use search technologies effectively, locating relevant information and understanding how results are ranked.	Use search engines to provide relevant and accurate information to support their learning.
acy)	Answer basic questions about information displayed in images, e.g. more or less	cy)	Understand where to go for help and support when they have concerns about content or contact on internet (or other online technologies)	Use technology safely and respectfully.	Use technology safely and respectfully and responsibly, recognising unacceptable behaviour online
(Digital Literacy)	Collect simple data (e.g. likes/dislikes) on a topic	gital Litera	Independently log on to the school network.	To know how to report concerns about online content.	To identify a range of ways to report concerns about online content and online contact.
connect (Dig	Can present simple data using images, e.g. number of animals	connect (Digital Literacy)	Understand and describe online risks and the age rules for sites.	Explain the need to stay safe when communicating online and understand the risks.	Collaborate with others online on sites approved and moderated by teachers.
Lo		Strand - To c	Navigate simple webpages using forward, back and the home button.	To know that comments made online can be hurtful or offensive and are the same as bullying.	Understand the effects of cyber- bullying
Strand-		Str	Switch on and shut down a device independently.	Understand and describe the term 'copyright'.	Describe the dangers online and how to minimize risks and report problems.
			Log-in and out of devices independently.		
			Print a document with support.		

	Early Years		Year I/2	Year 3/4	Year 5/6
	Use technology to explore and access digital content		Use keyboard skills to be able to word process simple texts.	Understand computer networks, including the internet	Recognise and name main components of hardware which allow computers to join or form a network
e	Operate a digital device with support to fulfil a task	0	Use word processing applications	Recognise and name main components of computer hardware	Make appropriate choice about the best way to present information and best software for the purpose of the job
Strand- To communicate	Create simple digital content, e.g. digital art	communicate		Understand how networks can provide multiple services (E.g. the web; opportunities for communication and collaboration; online baking/shopping.)	Manipulate images e.g cropping, changing the colour of the image etc.
	Choose media to convey information, e.g. image for a poster	Strand - cor		To use word processing skills including bullets/numbering, text boxes, ctrl key, fonts, upper/lower cases.	Create presentations with range of links, images and sounds.
	Choose a digital device from a selection to complete a specific task				

	Year I/2	Year 3/4	Year 5/6
	Organise & Store - Save a document in their folder with support.	To begin to devise and construct databases	Develop animation/filming skills: scripting, recording and editing sound, using narration and dialogue
(Information gy)	Retrieving – Open work previously saved	Make and explore branching databases	Edit short films and evaluate quality.
o collect (Info Technology)	Manipulate – Edit work	Input data into aa data base; generating graphs and charts.	To devise and construct databases
. To col Techi	Use simple databases to find and record information in areas across the curriculum with support.	To begin to devise and construct spreadsheets	Make and explore branching databases.
Strand -	Capture and download images/video from devices (e.g. camera) or applications (e.g. internet)		Collect, analyse, evaluate, input and present data and information generating graphs and charts.
S	Film short video clips with support		To devise and construct spreadsheets
			To make practical use of a spreadsheet to model real life situations

Computing is split into 5 different categories: E-Safety, Programming, Multimedia, Technology in Our Lives and Date Handling. Below is the vocabulary progression from Reception until they leave us in Year 6.

Reception Year I			Year 2	Year 3 and Yea	ar 4	Year 5 and Year 6	
Choices F Internet C Website F		ules Online rivate information mail	Appropriate/inappropriate s Cyber-bullying Digital footprint Keyword searching	ites E-safety rules Secure password Report abuse bu Gaming Blogs	tton	Responsible online communication Informed choices Virus threats Blogs Messaging	
Programming Reception	Year I	Year 2	Year 3	Year 4	Year 5	Year 6	
Equipment Buttons Movement	Instructions Buttons Robots Patterns Program	Forward Backward Right-angle tur Algorithm Sequence Debug Predict	Sequence instructions Sequence debugging Test + improve Logo commands Sequence programmin	commands Sensors Open-ended problem	control	ures Plan, program, test review a program Program writing Control mimics + devices Sensors	

Multimedia								
Reception	Year I	Year 2	Year 3	Year 4	Year 5	Year 6		
Screen	Videos	Paint effects	Multimedia	Creating + modifying	Online sharing	Appropriate online		
Mouse	Camera stills	Templates	Presentations	Specific purpose	Multimedia effects	tools		
Images	Sounds	Animation	Alignment	Photo modifying	Multimedia	Audience		
Keyboard	Image bank	Documents	Brush size	Keyboard shortcuts	modification	Atmosphere		
Paint	Word bank	Index finger typing	Repeats	Bullet points	Transitions	Structure		
	Space bar	Enter/return	Reflections	Spell check	Hyperlinks	Copyright		
		Caps lock	Green screening	Constructive feedback	Editing tools	Information collection		
		Backspace	Amend		Refining	HTML code		
			Сору		Online sharing	Storing		
			Paste					
Technology in O	ur Lives							
Reception	Year I	Year 2	Year 3	Year 4	Year 5	Year 6		
Technology	Purpose	Information sources	School network	Different networks	Computing devices	Information		
Share	Online tools	Communication	Devices	Information collection	Internet parts	movement		
Create	Communicate	Purposes	Computer parts	Reliability	Collaboration	Connecting devices		
Internet		Website content	Collaborate	Owners	Responsibility	Different audiences		
			Appropriate online		Searching strategies	Research strategies		
			communication		Webpages	Search result		
			Search tools			rankings		
			Appropriate websites			Acknowledge		
			Owner			resources		
Data Handling								
Reception	Year I	Year 2	Year 3	Year 4	Year 5	Year 6		
Collect	Photographs	Capturing moments	Questioning	Database creation	Spreadsheets	Generate		
Set of photos	Video	Magnified images	Database	Database searches	Complex searches	Process		
Count	Sound	Questions	Construct	Inaccurate data	(and/or: )	Interpret		
Organise	Data	Data collection	Contribute		Problem solving	Store		
-	Pictogram	Graphs	Recording data		Present answers	Present information		
	Digitally	Charts	Data logger		Analyse information	Plausibility		
	, , , , , , , , , , , , , , , , , , ,	Save	Present data		Question data	Appropriate data tool		
		Retrieve			Interpret	Interrogate		
						Investigations		

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