Muscliff Primary computing curriculum

	EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
	Use a variety of electronic toys in play situations (dance mats, Bee-Bots, remote control toys) using basic directional language	I can move a programmable toy in different directions, by giving and following instructions	I can plan out and enter a sequence of commands to carry out specific tasks	I can create a procedure (group of commands) to do a specific task, draw a specific shape	I can use ifthen command within a series of instructions	I can plan and test my algorithms and programs, detecting and correcting errors as needed	I can design and create a game, app and / or model, incorporating variables and different forms of input and output
Programming	Respond to simple cause and effect devices (push a button to hear a sound)	I can combine commands to follow a route	I can explore a computer simulation that copies real life	I can explain how to control a simulation	I can write a program for a specific purpose , incorporating features such as inputs and procedures	I can use variables in programs	
Prog	Program a simple floor robot to carry out a short sequence of steps	I can explain what an algorithm is	I can explain what a program is	I can describe and write algorithms to complete specific tasks	I can predict the outcome of a program	I can test existing programs to see how they could be improved	I can test, debug and modify a program to improve it
	Explore toys that simulate control devices e.g. traffic lights, scanner, microwave, cash tills	I can explore outcomes when a instructions are given in different orders	I can reorder a sequence of instructions and correct errors in programs (debug)	I can refine a program by using the repeat command	I can solve problems by breaking them into smaller parts	Improvea	
	Use a paint program to make marks, using simple tools, to communicate their ideas	I can use letters, basic punctuation, spacebar and enter key to type words	I can use letters, basic punctuation, spacebar and enter key to type words and sentences	I can change the font size, colour and style to change my work	I can add text effects and move items around to find the best layout	I can use different layouts and effects (such as text box, columns,colour) to refine and improve my work	I can discuss and evaluate my documents, and make amendments as needed
Communication	Begin to use a keyboard to produce text on screen		I can use backspace to make corrections	I can edit and improve my work by changing, adding or removing words	I can use cut, copy and paste to reorder content	I can use spell check to aid my writing	
Comr	Use different forms of electronic communication in free play				I can add slide transitions and animation effects	I can trigger animations or link to other slides when objects are pressed	I can add multimedia elements, e.g. sounds, animation
	Develop mouse control						

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		Use appropriate buttons, menus and hyperlinks to navigate a teacher selected website	I can explore a website using buttons, menus and hyperlinks	I can find out facts by navigating websites I know not all the	I can navigate to a website via favourites and typing in address I can talk about the	I can type in a URL to find a website I know that not all	I can use more complex search criteria to narrow down my search I know the	I can use search engines effectively, and I know how search results are selected and ranked I can make notes from
-	Kesearcn			information found on the internet will be accurate or useful	reliability of information on the internet	websites are accurate and can check information using a different site	information found on some sites will be biased	information found on websites to present my findings
C	Kese					I know what plagiarism is and when I can use the work of others	I know that images and text found on websites is subject to copyright	I know how to credit the use of websites in my work, and why this should be done
							I understand how computer networks work, including the internet	I understand the difference between the internet and an internet service
	Capturing	Explore ways of making and listening to sounds using simple programs and devices	Use multimedia equipment, e.g. digital cameras, video cameras, webcams and visualisers	I can use a digital still camera to take a picture	I can zoom in and out on subjects appropriately	I understand the need to frame the image and move the camera carefully	I can take photos for a given purpose	I can take photos for a given purpose and use them in my work
Multimedia	bū		I can paint with different colours using undo or eraser to correct mistakes	I can use different tools such as brush, pen, line, shape and fill	I can use the print screen function to capture an image	I can select and use a certain area of an image	I can group, copy and move shapes within a picture	I can order shapes / images by sending them to the back / front
Ž	Editing			I can use a photograph within a document	I can combine a set of photographs to tell a story	I can crop and / or rotate an image where needed	I can improve a photo with editing tools e.g. blur, filters, add border	I can select and use appropriate multimedia tools, and combine these for a given purpose with confidence

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			Begin to develop simple	I can sort items into	I can collect and	I can design a	I can present data in a	I understand the	
			classification skills by	sets or simple tables	record data	questionnaire to	graph, selecting the	difference between	
			carrying out simple		purposefully	collect information,&	most appropriate	discrete and	
			sorting activities away			display this in a graph	layout	continuous data	
			from the computer			or table			
		æ	Continue to develop	I can draw a simple	I can present data in a		I can use my graph in a		
		Data	simple classification	graph, e.g. pictogram /	bar chart		document /		
			skills using ICT	block graph			presentation to share		
							findings with others		
			Produce simple	I can explain what the	I can answer and ask		I can answer questions		
			pictograms with help	graph shows	questions about bar		relating to graphs, and		
					charts		pose my own		
							questions		
					I can add information	I can create a		I can design and	
					to a database	branching database to		create a database	
		es				sort and organise			
	ta	as				items			
	Data	Databases			I can read and use a	I can filter and sort		I can interrogate a	I can use information in
		Da			simple database to	records in a database		database using more	a database to create a
					find information	to answer questions		complex searches	graph in order to answer
						·			questions
							I can add text and	I can change the	I can change the format
							numbers to	appearance of cells,	of cells appropriately
							spreadsheet cells	e.g. sizeand colours	
							I can add simple	I can use simple	I can change data in a
		ets					formulae: +-*/	functions, e.g. SUM,	formula to answer
		je						AVERAGE, to solve	'What if?' questions
		dsl						problems	
		Spreadsheets						I can create a graph	I can design and create a
		Spi						using spreadsheet	spreadsheet for a
								data	specific purpose,
									incorporating different
									features of design and
									function
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