COMPUTING SKILLS PROGRESSION MAP



St. Michael's Church of England Primary School

Our school values: Respect • Kindness • Challenge • Forgiveness • Perseverance

NATIONAL CURRICULUM		EYFS	YEAR 1	YEAR 2
	Understand what algorithms are	 Understand that instructions lead to specific outcome Order steps of a known task 	 Begin to understand an algorithm is a set of instructions to achieve a specific purpose 	 Describe a series of instructions as a sequence Explain that a sequence of commands has an outcome
		 Know directional words forward, backward, left, right 	 Combine forwards and backwards commands tomake a sequence Combine four direction commands to make sequences 	 Combine four directions commands to make increasingly more complex sequences
		 Understand that we control computers 	 Understand that we control computers by giving them instructions 	 Understand that computers have no intelligence and wehave to program them to do things
Programming	Understand how algorithms are implemented as programs on digital	 Press buttons on a floor robot and talk about the movements 	 Choose a command for a given purpose Show a series of commands can be joined together 	Explain that a sequence of commands has a start Your light shifts

	devices, and that programs execute by following precise and unambiguous instructions			 Explain what happens when we change the order of commands
			 Understand that the order of instructions in an algorithm is important 	 Understand that instructions in an algorithm need to be in order, clear and unambiguous
	Create and debug simple programs	 Input a short sequence of instructions to control a device 	 Give a sequence of instructions to a floor robot. The length of programs increasing over the course of the year. 	 Create a simple program on screen, correcting any errors, with a particular goal or purpose in mind (e.g. drawing a shape or moving a sprite from one place to another).
		 Try alternative approaches to achieve a goal 	 Begin to debug instructions when a floor robot does not reach the intended destination 	 Use the word debug to correct mistakes in an algorithm
				 Evaluate the success of analgorithm
	Use logical reasoning to predict the behaviour of simple programs		 Begin to predict what will happen for a short sequence of instructions in a program 	 Predict the outcome of a sequence
			 Understand that we control computers by giving them instructions 	Compare prediction to the program outcome

Information Technology	itent	Text	Use technology purposefully to create,organise, store, manipulate and retrieve digital content	 Identify and find keys on a keyboard Add and remove text using basic typing skills (including use of space bar, backspace to delete and basic, age-appropriate punctuation) Save work to the appropriate location (hard drive and Google Drive) Begin to print, retrieve and edit work, with support 	 Identify and find keys on a keyboard with increased confidence and speed Type capital letters Change font, style (bold, italic and underline) and size of text Save, print, retrieve and edit work from appropriate location (hard drive and Google Drive) independently Upload images or movies to appropriate place (hard drive and Google Drive), with support
	Creating Digital Cont	Image		 Create/edit a drawing using a range of 'tools' such as brushes, pens, eraser, stamps and shapes, and set the size, colour and shape; Explain why tools were chosen and used 	 Add and resize images (including insert clip art/copy & paste an image) Capture/edit photograph using a range of 'tools'
		Multimedia			 Use software to create and edit digital music for a purpose Explain and begin to justify why tools were chosen and used

	Label objects	
dling	 Identify that objects can be counted Count objects with same properties Compare groups of objects 	 Recognise that objects can be counted and compared using tally charts
ata Han	 Describe objects in different ways 	 Select objects by attribute and make comparisons
		 Recognise objects can be represented as pictures
		 Create a pictogram Explain that information can be presented using a

Digital Literacy	Online Safety	Use technology safely and respectfully Keeping personal information private Identify where to go for help and support when they have concerns about content or contact on the internet or other online	See related document: Online	Safety Skills Progression (Education f	or a Connected World)
	s and	technologies Recognise common uses of information technology beyond school	 Help adults operate equipment around the school, independently operating simple equipment 	Identify technology	 Identify information technology in the home Identify information technology beyond school Explain how information technology benefits us
	ing System: ks			 Identify a computer and its main parts 	 Recognise the uses and features of information technology
	Computi Networl			 Use a mouse in different ways 	Continue to practise mouse skills independently