## Computing Lead – Mr A Best

Term	Topic	Subject Specific	Knowledge and Skills
		Vocabulary	Children will be able to:
Autumn	Computing	Information technology	identify examples of computers.
1	systems and	(IT), computer,	describe some uses of computers.
	network-	computer, barcode,	identify that a computer is a part of information technology.
	Information	scanner/scan.	identify information technology in the home.
	Technology		<ul> <li>explain the purpose of information technology in the home.</li> </ul>
	around us		open a file.
			move and resize images.
			find examples of information technology.
			talk about uses of information technology.
			compare types of information technology.
			demonstrate how information technology is used in a shop.
			recognise that information technology can be connected.
			<ul> <li>explain how information technology helps people.</li> </ul>
			list different uses of information technology.
			<ul> <li>recognise how to use information technology responsibly.</li> </ul>
			say how those rules/guides help us.
			<ul> <li>identify the choices that are made when using information technology.</li> </ul>
			<ul> <li>explain simple guidance for using information technology in different environments and settings.</li> </ul>
Autumn	Creating	Device, camera,	recognise what devices can be used to take photographs.
2	media- Digital	photograph, capture,	explain what to do to capture a digital photo.
	picture	image, digital,	explain the process of taking a good photograph.
		Landscape, portrait,	take photos in both landscape and portrait format.
		framing, subject,	<ul> <li>explain why a photo looks better in portrait or landscape format.</li> </ul>
		compose, Light	improve a photograph by retaking it.
		sources, flash, focus,	<ul> <li>explore the effect that light has on a photo.</li> </ul>
		background, editing,	experiment with different light sources.
		filter, format, framing,	explain why a picture may be unclear.
		lighting, focus.	<ul> <li>recognise that images can be changed.</li> </ul>
			<ul> <li>use a tool to achieve a desired effect.</li> </ul>
			<ul> <li>apply a range of photography skills to capture a photo.</li> </ul>
			<ul> <li>recognise which photos have been changed.</li> </ul>
			<ul> <li>identify which photos are real and which have been changed.</li> </ul>
Spring 1	Making Music	Open, edit, reopen	<ul> <li>play an instrument following a rhythm pattern.</li> </ul>
Opining 1	IVIGINITY IVIUSIC	save, images, sounds	<ul> <li>play an instrument following a mythin pattern.</li> <li>connect images with sounds.</li> </ul>
		Javo, imagos, sounds	
			use a computer to experiment with pitch and duration.

Spring 2 Pictograms Organise, data, enter, attribute, sharing.  Summer 1 Programming A- Robot Algorithms Algorithms algorithm, program, order, commands, prediction, route, mat, Debugging	<ul> <li>relate an idea to a piece of music.</li> <li>use a computer to create a musical pattern using three notes.</li> <li>refine musical pattern on a computer.</li> <li>describe an animal using sounds.</li> <li>save work.</li> <li>reopen work.</li> <li>explain to improve work.</li> <li>enter data onto a computer.</li> <li>use a computer to view data in a different format.</li> <li>use pictograms to answer simple questions about objects.</li> <li>use a tally chart to create a pictogram.</li> <li>explain what the pictogram shows.</li> <li>tally objects using a common attribute.</li> <li>create a pictogram to arrange objects by an attribute.</li> <li>create a pictogram to arrange objects by an attribute.</li> <li>choose a suitable attribute to compare people.</li> <li>collect data needed.</li> <li>create a pictogram and draw conclusions from it.</li> <li>use a computer program to present information in different ways.</li> <li>share what I have found out using a computer.</li> <li>give simple examples of why information should not be shared.</li> <li>give clear and unambiguous instructions.</li> <li>create different algorithms for a range of sequences (using the same commands).</li> <li>use an algorithm to program a sequence on a floor robot.</li> <li>show the difference in outcomes between two sequences that consist of the same commands.</li> <li>follow a sequence.</li> <li>predict the outcome of a sequence.</li> <li>compare prediction to the program outcome .</li> <li>explain that choices made for a mat design.</li> <li>identify different routes around the mat.</li> <li>test the mat to make sure that it is usable.</li> <li>explain what the algorithm should achieve.</li> <li>create an algorithm to create a program.</li> <li>plan algorithms for different parts of a task.</li> <li>test and debug each part of the program.</li> <li>put together the different parts of the program.</li> </ul>
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Summer 2	Year 2 - Programming B - Programming Quizzes	Sequence, command, program, run, start, outcome, predict, blocks, sprite, algorithm, sequence, actions, design, project, modify, change, build, match, compare, debug, features, evaluate	<ul> <li>identify the start of a sequence</li> <li>identify that a program needs to be started.</li> <li>show how to run a program.</li> <li>predict the outcome of a sequence of commands.</li> <li>match two sequences with the same outcome.</li> <li>change the outcome of a sequence of commands.</li> <li>work out the actions of a sprite in an algorithm.</li> <li>decide which blocks to use to meet the design.</li> <li>build a sequence of blocks.</li> <li>choose backgrounds for the design.</li> <li>choose characters for the design.</li> <li>create a program based on the new design.</li> <li>choose the images for their own design.</li> <li>create an algorithm.</li> <li>build sequences of blocks to match their own design.</li> <li>compare their project to their design.</li> <li>improve project by adding features.</li> <li>debug programs.</li> </ul>
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