







Term	Main Computing Theme	Sub Questions / Key Knowledge	Subject Specific Vocabulary	Software / Resources	Assessment will be based on a formative approach of children being able to answer the key questions using the knowledge acquired over the half term through a quiz-based approach.
<p>Autumn 1</p> 	<p>DL – Computer Systems and Networks – Systems and Searching</p>	<p>What are systems? How are computer systems used in day to day life? What is a search engine and how is it used? How are search results ranked? What is the importance of ranking search results?</p> <p>I know computers can be connected together to form systems. I know the role of computer systems in our lives. I know how to use a search engine. I know search engines select results. I know search results are ranked. I know why the order of results is important, and to whom.</p>	<p>Data packets Domain IP address Router URL</p>	<p>Google Chrome</p>	
<p>Autumn 2</p> 	<p>IT – Excel</p>	<p>What are the basic formatting skills of Microsoft office? What are the keyboard shortcuts and their purpose?</p> <p>What are columns, cells and rows? Why is data input accuracy important? What is the autosum function? What is a formula?</p> <p>I know basic formatting can be used across Microsoft office (text size, font, colour, size, underline). I know how to use keyboard shortcuts to save, copy and paste. ----- I know what columns, cells and rows are.</p>	<p>Autosum Data Format Formula spreadsheet</p>	<p>Microsoft Excel</p>	

		<p>I know data needs to be inputted with accuracy. I know basic calculations can be solved using excel. I can create a simple formula. I can apply the autosum feature for desired effect.</p>			
<p>Spring 1</p> 	<p>CS - Minecraft Education</p>	<p>What are sequencing blocks? What is the purpose of event blocks and event handlers? What are co-ordinates and how do they work? What is an 'absolute world' position? How do conditionals work? What are the range of loop blocks?</p> <p>I know what sequencing blocks are. I know what event and event handlers do. I know how co-ordinates can be used to determine position. I know what absolute world position is. I know what "if" conditionals can be used for. I know what "if else" conditionals are used for. I know a range of loops including repeat, for, while and forever loops.</p>	<p>Sequencing Event handlers 'if' conditionals 'if else' conditionals</p>	<p>Minecraft Educaiton software instillation</p> <p>Coding with Minecraft Unit - Coding with Minecraft Minecraft Education</p>	
<p>Spring 2</p> 	<p>CS - Lego we do</p>	<p>What is artificial intelligence? What are the benefits of using AI? What are sensors used for?</p> <p>I know what artificial intelligence is. I know the advantages of using AI for a set goal. I know that sensors can detect motion, colour and inclination.</p>	<p>AI Motion Inclination</p>	<p>Lego We-Do (Ipads and Laptops)</p>	

<p>Summer 1</p> 	<p>CS – Microbits</p>	<p>What are variables and how can they be presented? What devices is code used in? How ca an algorithm be used to achieve a goal? What variables does debugging programs involve?</p> <p>I know that variables can be random numbers. I know code is used in a range of modern devices. (Activity tracker) I can write an algorithm to achieve a set goal (Create a step counter) I know debugging programs involves random number variables.</p>	<p>Random variables Debugging LED's Temperature sensor Display connector</p>	<p>Microbit Make Code Microsoft MakeCode for micro:bit (microbit.org)</p>	
<p>Summer 2</p> 	<p>IT - Sensory Room</p>	<p>What is the purpose of a sensory room? How do Bluetooth connections work? How do sensory rooms provide artificial experiences?</p> <p>I know what the purpose of a sensory room is. I know Bluetooth connections connect devices. I know sound, smells and images can be manipulated using technology. I know sensors rooms can be used to provide experiences.</p>	<p>Sensory Bluetooth Manipulation Reality Virtual reality Augmented reality</p>	<p>Sensory Room Sensory Room Ipad Smells</p>	