







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><b>Autumn 1</b></p> 	<p><b>DL – Computer Systems and Networks - IT around us</b></p>	<p><b>How is technology used in and beyond school?</b>  <b>How can information technology can help us?</b>  <b>How can we safely use information technology?</b>  <b>What choices can I make whilst using information technology?</b></p> <p>I know information technology is used in and beyond school.            I know information technology can help us.            I know information technology must be used safely.            I know choices are made when using information technology.</p>	<p>Cyber bullying            Virus            Avatars            Appropriate            Inappropriate            Personal information</p>	<p>Laptop            Google Chrome</p>	
<p><b>Autumn 2</b></p> 	<p><b>IT – Word</b></p>	<p><b>How can a mouse be clicked?</b>  <b>How do I create a new folder?</b>  <b>How do I form capital letters on a digital device?</b>  <b>How can I spell check my work?</b>  <b>Which buttons are my cursor keys?</b>  <b>How can shapes be inserted?</b>  <b>How can clip art be inserted?</b>  <b>How can word art be inserted?</b></p> <p>I know a mouse can be left clicked and right clicked.            I know new folders can be created.            I know capital letters can be formed.            I know my work can be spell checked.            I know which buttons are my cursor keys.            -----            I know a range of media can be inserted using clipart, word art and shape.</p>	<p>Insert            Copy/paste            Folder            Shift            backspace</p>	<p>Microsoft Word</p>	

<p><b>Spring 1</b></p> 	<p><b>CS – Beebots</b></p>	<p><b>What is a rotation?</b>  <b>What is meant by clockwise?</b>  <b>What is meant by anti-clockwise?</b>  <b>What is an estimate?</b>  <b>How do I get to the end of complex maze?</b>  <b>What problems will I encounter using code?</b>  <b>How will the Beebot react to my code?</b>  <b>How will I fix problems?</b></p> <p>I know what rotation is.  I know the difference between anti-clockwise and clockwise.  I know what an estimate is.  I know how to get to the end of a complex maze using turns.  I know what the Beebot will do before running the code.  I know problems when observing code and can fix them.</p>	<p>Rotation  Anti-clockwise  Clockwise  Running  code</p>	<p>Beebot   Beebot Maps</p>	
<p><b>Spring 2</b></p> 	<p><b>CS - Scratch Jnr</b></p>	<p><b>What is an algorithm?</b>  <b>Why won't code work in Scratch Jnr?</b>  <b>What is a sprite?</b>  <b>How can code behaviour be predicted in Scratch?</b>  <b>What is motion?</b>  <b>What is repetition?</b>  <b>What is an input in Scratch Jnr?</b>  <b>What is an output in Scratch Jnr?</b>  <b>What is an event block?</b>  <b>Where should an event block be placed?</b></p> <p>I know what an algorithm is.  I know why code won't work in scratch jnr.  I know what a sprite is.  I know code behaviour can be predicted in scratch.</p>	<p>Algorithm  Sprite  Motion  Repetition  Input  output</p>	<p>Scratch Jnr – Ipad App</p>	

		<p>I know what motion is. I know what repetition is. I know what inputs and outputs are in scratch jnr. I know that code starts with an event block.</p>		
<p>Summer 1</p> 	<p>CS – Lightbot</p>	<p><b>What does each coding block represent?</b> <b>What is debugging?</b> <b>What can debugging do?</b> <b>How can I solve a coding problem?</b> <b>How can I evaluate how my code works?</b></p> <p>I know what each coding block represents. I know what debugging is. I know that debugging can fix code. I know a range of strategies to solve a coding problem. I know to run code to evaluate how it works.</p>	<p>Coding Block Debugging strategies</p>	<p>Lightbot Ipad App</p>
<p>Summer 2</p> 	<p>IT - 2 Animate</p>	<p><b>What different functions do digital art tools have?</b> <b>What is a frame?</b> <b>Can frames change?</b> <b>How can frames change?</b> <b>How do you change the speed of a frame?</b></p> <p>I know digital art tools have a range of functions. I know what a frame is. I know frames can change. I know frames can be sped up and slowed down.</p>	<p>Digital art Frame Sped up Slowed down</p>	<p>Purple Mash 2Animate <a href="#">Purple Mash by 2Simple</a></p>