



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.
Autumn 1 	DL – Computer Systems and Networks – The Internet	<p>How are networks connected? How can websites be shared? Where can content be accessed? How can new content be added? Is all content on the WWW reliable?</p> <p>I know networks physically connect to other networks. I know networked devices make up the internet. I know websites can be shared via the World Wide Web (WWW). I know content can be added and accessed on the World Wide Web (WWW). I know the consequences of unreliable content.</p>	<p>Email e-safety search engine online copyright</p>	<p>Google Chrome</p>	
Autumn 2 	IT – Powerpoint	<p>How can I transfer media from one document to another using a shortcut? How do I save my work efficiently? How do I insert video files and sounds? What is a slide transition and how can I add them? Why and how are animations added?</p> <p>I know media can be copied and pasted from one document to another. I know efficient methods of saving work.</p> <p>-----</p> <p>I know that you can insert a range of multimedia including video files and sounds. I know slide transitions can be added. I know animations can be provided for a purpose.</p>	<p>Slide Transition Hyperlink Animation Insert</p>	<p>Powerpoint</p>	




Computing Medium Term Planning

Year: 4

DL – Digital Literacy

IT – Information Technology

CS – Computer Science

<p>Spring 1</p> 	<p>CS – Scratch</p>	<p>What do sensing blocks do? What do operators do? What are variables and how can they be used in a game? How do we create precise motion?</p> <p>I know what sensing blocks do. I know what operators do. I know what variables are and how they can be used in a game. I know co-ordinates can provide precise motion.</p>	<p>Sensing Operator Variable Co-ordinate Precise Motion</p>	<p>Scratch - Scratch - Imagine, Program, Share (mit.edu)</p>	
<p>Spring 2</p> 	<p>CS – Crumble – Parking Sensor Project</p>	<p>What can an ultrasonic sensor do? How do I code variables? How and why do I duplicate code?</p> <p>I know what an ultrasonic sensor can do. I can code variables on hardware. I know variables can be used on hardware. I know I can duplicate code to be more efficient.</p>	<p>Ultrasonic sensor Hardware Duplicate</p>	<p>Redfern Electronics – Crumble Parking Sensor Project Redfern Electronics</p>	
<p>Summer 1</p> 	<p>CS - Minecraft Education</p>	<p>What is credibility? What is pattern recognition and how is it applied? What is a repetitive loop? What is a nested loop? What is collaboration and why is it important when completing a project? What is debugging and why is it important when completing a project?</p> <p>I know what credibility is. I know what pattern recognition is and can apply it.</p>	<p>Credibility Pattern recognition Nested loop Repetitive loop Collaboration</p>	<p>Coding Fundamentals and more! Minecraft Education</p> <p>Ensure you only use the “Block 1” lessons</p>	


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		<p>I know repetitive loops can be applied and their effect. I know what a nested loop is. I know what collaboration is and can use it to complete a project. I know what debugging is and can apply it in a project</p>			
<p>Summer 2</p> 	<p>IT - Stop Frame Animation</p>	<p>What type of movements are needed to create an animation? Which software can I use to create an animation? What is a transition and what affect do they create? What is an appropriate speed of transition for a stop frame animation?</p> <p>I know small movements create animation. I know which software is appropriate for animation. I know what transitions are and their purpose. I know a correct speed of transition to create a stop frame animation.</p>	<p>Animation Transitions Stop frame</p>	<p>Ipads</p>	