



Computing—Skills Progression



	Y1	Y2	Y3	Y4	Y5	Y6
Computer skills	<p>Children will learn how to:</p> <ul style="list-style-type: none"> • How to switch on and shut down a computer • Use a computer mouse • Launch applications and manipulate windows • Open and save files and folders • Drag objects using a mouse <p>Using Word, children will learn how to:</p> <ul style="list-style-type: none"> • Type with two hands • Use the shift, space and enter key • Edit work by using the backspace, delete and arrow keys • Undo and redo text • Select and format text 	<p>Children will <i>consolidate</i> how to:</p> <ul style="list-style-type: none"> • Turn on and off the computer independently • Use a mouse accurately to manipulate the screen • Open applications • Type with two hands 	<p>Using Microsoft Word, children will learn how to:</p> <p>Format text</p> <ul style="list-style-type: none"> • Use the snipping tool • Search for files • Take screenshots • Use the 'change case' button • Use menu buttons • Align text • Use the 'show all characters' button • Use bullets and numbering • Use keyboard shortening keys • Add text boxes and wrap text 			<p>Using Excel, children will learn how to:</p> <ul style="list-style-type: none"> • Understand and use spread sheets • Format and enter specific formulas • Solve specific problems such as number calculations • Create their own spread sheet • Use basic formula to find answers to problems including SUM and AVERAGE • Insert a bar or column graph from a spreadsheet • Replicate formulas over several cells
Computer art/DT	<p>Using Microsoft Paint, the children will learn how to:</p> <ul style="list-style-type: none"> • Use different colours and brushes • Create shapes • Fill areas • Undo and redo designs • Add text to a paint design 	<p>Using Microsoft Paint, the children will learn how to:</p> <ul style="list-style-type: none"> • Build on their prior computing painting knowledge • Create a painting in the style of an artist • Create darker and lighter shades of colour 	<p>Using Microsoft Paint, children will learn how to:</p> <ul style="list-style-type: none"> • Draw, order, group and manipulate objects to make a picture 	<p>Using Microsoft Publisher, children will learn how to:</p> <ul style="list-style-type: none"> • Create text boxes • Insert photos off the internet and clipart • Resize and position objects • Use the 'crop' feature • Edit text • Control a model using an ICT control model (codebug) 	<p>Using SketchUp, children will learn how to:</p> <ul style="list-style-type: none"> • Develop and extend on their drawing skills to create 3D models • Create simple and complex 3D models • Add detail and manipulate 3D models using a variety of tools 	

Programming and animation

	<p>Using Scratch Junior, the children will learn how to:</p> <ul style="list-style-type: none"> • Give simple algorithms • Debug simple algorithms • Use logical reasoning to predict how a program will behave • Understand the basic principles of coding 	<p>Using Turtle Logo, children will learn how to:</p> <ul style="list-style-type: none"> • Create, test and debug algorithms • Move forward and make quarter turns, • Use command abbreviations for moving forwards, right and left • Use the 'repeat' command <p>Using Scratch, children will learn how to:</p> <ul style="list-style-type: none"> • Write basic algorithms to make the Sprite move using a series of blocks • Use the 'repeat' command • Add sound 	<p>Using Turtle Logo, children will learn how to:</p> <ul style="list-style-type: none"> • Move and draw a figure on a screen using 'pen up' and 'pen down' • Use algorithms and the 'repeat' command 	<p>Using Scratch, children will learn how to:</p> <ul style="list-style-type: none"> • Write quizzes by combining questions • Solve problems • Test and debug algorithms • Add sound and backgrounds • Edit characters by combining blocks <p>Using Turtle Logo, children will learn how to:</p> <ul style="list-style-type: none"> • Create an algorithm to program a procedure • Use colour • Set the position of the turtle using coordinates • Use the arc command to create patterns using different shapes 	<p>Using Scatch, children will learn how to:</p> <ul style="list-style-type: none"> • Build and edit algorithms • Develop their skills in writing their own algorithms as well as editing and debugging existing codes • Add sounds • Manipulate the movement of two or more characters <p>Using Flowol, children will learn how to:</p> <ul style="list-style-type: none"> • Use flowcharts to program and control devices • Build sequences of instructions, control multiple outputs and structure algorithms with decisions and inputs • Insert symbols to create a working flowchart • Edit symbols to modify the effect • Edit a flowchart to control an output • Use 'inputs' and 'reasoning loops' • Create a subroutine separate to the main flowchart program 	<p>Using Scratch, children will learn how to:</p> <ul style="list-style-type: none"> • Develop their skills in writing their own algorithms as well as editing and debugging existing codes • Structure code and animate characters and scenes, gradually building to create a short animated story <p>Using Kodu, children will learn how to:</p> <ul style="list-style-type: none"> • Create their own world • Edit a world by adding effects • Edit a character by adding code, allowing them to interact with the world • Control a character using a keyboard to follow a pre-planned algorithm • Design a race between two characters

Internet research and communication		Children will learn how to: <ul style="list-style-type: none"> • Use the internet safely and purposefully • Search the internet using one word and make sense of the results • Use “for kids” to return suitable results • Follow links and then return to the search results • Use a range of search engines 	Children will learn how to: <ul style="list-style-type: none"> • Distinguish between a reliable and unreliable website or webpage • Save webpages in a browser, as well as in a file or folder, and how this can be shared with others • Identify ways of communicating online, and how they can keep safe 		Using Google Sites, children will learn how to: <ul style="list-style-type: none"> • Create and edit a webpage using Google • Use advanced search features in Google • Create a webpage with the layout of their own • Add hyperlinks across different webpages • Add a homepage with images and text 	Using Google Sites, children will learn how to: <ul style="list-style-type: none"> • Create an entire website by first researching what makes a good website • Create a sitemap and multi-page website • Link pages internally and externally • Preview a webpage before publishing
Sound and recording				Using MovieSoup, the children will learn how to: <ul style="list-style-type: none"> • Record stop-start animation using iPads • Add timings using application • Order and sequence frames 	Using Audacity, children will learn how to: <ul style="list-style-type: none"> • Use software and digital devices for recording sound • Present, listen to and review their own sound recordings • Edit pitch and volume • Add background sounds 	Using Windows Movie Maker, children will learn how to: <ul style="list-style-type: none"> • Use digital devices for recording (video camera or tablet) to plan good quality interviews for a documentary • Import video files into video editing software • Create transitions and visual effects to enhance a movie • Add a title and credits
Presentation skills		Using Microsoft PowerPoint, children will learn how to: <ul style="list-style-type: none"> • Create simple presentations • Use appropriate skills to create a PowerPoint including; adding new slides, editing slide layout, adding and formatting images, reordering slides, present slideshow and printing • Save work into a 	Using Microsoft PowerPoint, children will learn how to: <ul style="list-style-type: none"> • Set a theme for a PowerPoint • Use slide transitions and animations • Create hyperlinks in the action settings • Add audio and videos 			

		folder which can be found and opened				
E-safety	<p>Children will understand:</p> <ul style="list-style-type: none"> Rules to follow to keep safe online How to search for reliable sources online How to keep personal information private How to put their name and date on something that is theirs How to safely use email for communication 	<p>Children will understand:</p> <ul style="list-style-type: none"> Websites that are appropriate and not Digital footprints Cyberbullying Keyword searching online How to judge whether a website is a good source of information or not 	<p>Children will understand:</p> <ul style="list-style-type: none"> The importance of secure passwords How to communicate online safely How websites use promotions In-person and online communication differences How to communicate effectively via email 	<p>Children will understand:</p> <ul style="list-style-type: none"> How to be a good online citizen How to protect themselves from online identify theft Cyberbullying messages How to increase the strategies for keyword searches Plagiarism 	<p>Children will understand:</p> <ul style="list-style-type: none"> How to create strong passwords How to build a strong digital citizenship community Spam and its consequences How to cite a website Photo alternations and how can photos can be altered digitally 	<p>Children will understand:</p> <ul style="list-style-type: none"> How to talk safely online How to be a good digital citizen Privacy rules and policies How to tackle and deal with cyberbullying if it arises How online stereotypes can be influential
Vocabulary	<p>Computer</p> <p>Typing</p> <p>Shift</p> <p>Space</p> <p>Enter</p> <p>Editing</p> <p>Backspace</p> <p>Delete</p> <p>Arrow keys</p> <p>Undo</p> <p>Redo</p> <p>Text</p> <p>Mouse</p> <p>Applications</p> <p>Windows</p> <p>Open</p> <p>Save</p> <p>Paint</p> <p>Colours</p> <p>Brushes</p> <p>Shapes</p> <p>Autofill</p> <p>Text</p> <p>Programming</p>	<p>Mouse</p> <p>Type</p> <p>Applications</p> <p>Painting</p> <p>Microsoft Paint</p> <p>Fill</p> <p>Edit</p> <p>Move</p> <p>Darker</p> <p>Lighter</p> <p>Shades</p> <p>Emotion</p> <p>Coding</p> <p>Programming</p> <p>Animation</p> <p>Algorithm</p> <p>Debug</p> <p>Repeat</p> <p>Command</p> <p>Internet</p> <p>Safety</p> <p>E-safety</p>	<p>Word processing</p> <p>Screenshots</p> <p>Change case</p> <p>Menu</p> <p>Align</p> <p>Text</p> <p>Bullets</p> <p>Numbering</p> <p>Text boxes</p> <p>Wrap text</p> <p>Manipulate</p> <p>Draw</p> <p>Picture</p> <p>Programming</p> <p>Coding</p> <p>Algorithm</p> <p>Repeat command</p> <p>Website</p> <p>Reliable</p> <p>Unreliable</p> <p>Webpages</p> <p>Browser</p> <p>Folder</p>	<p>Test</p> <p>Debug</p> <p>Algorithms</p> <p>Edit</p> <p>Characters</p> <p>Quiz</p> <p>Co-ordinates</p> <p>Publisher</p> <p>Text box</p> <p>Resize</p> <p>Crop</p> <p>Edit text</p> <p>Stop-start animation</p> <p>Sequence</p> <p>Timing</p> <p>Frames</p> <p>Movie animation</p> <p>Online citizen</p> <p>Theft</p> <p>Cyberbullying</p> <p>Plagiarism</p>	<p>3D modelling</p> <p>Design</p> <p>Algorithms</p> <p>Building</p> <p>Tools</p> <p>Algorithms</p> <p>Edit</p> <p>Debug</p> <p>Sound</p> <p>Manipulate</p> <p>Movement</p> <p>Flowol</p> <p>Flowcharts</p> <p>Input</p> <p>Output</p> <p>Reasoning loop</p> <p>Google Site</p> <p>Webpage</p> <p>Hyperlink</p> <p>Search features</p> <p>Homepage</p> <p>Recording</p>	<p>Spreadsheet</p> <p>Formula</p> <p>Calculations</p> <p>SUM</p> <p>AVERAGE</p> <p>Algorithm</p> <p>Code</p> <p>Scenes</p> <p>Animations</p> <p>Debugging</p> <p>Keyboard control</p> <p>Sitemap</p> <p>Multi-page website</p> <p>Internal</p> <p>External</p> <p>Filming</p> <p>Editing</p> <p>Transitions</p> <p>Ordering</p> <p>Sound</p>

	Bee-Bots Scratch Junior Algorithms Debug Coding E-safety Online safety Search Reliable Personal information Email Communication Safe	Presentation Folders Search Files Print Slide layout Reordering Slideshow Digital footprint Cyberbullying Keyword Source	Communication Safe Snipping tool PowerPoint Theme Slide transitions Hyperlinks Audio Videos Secure Passwords Communicate Websites Email		Pitch Tone Voice control Editing Passwords Digital citizenship Spam Photo alterations Digital enhancement	
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