

West End Primary School Computing Overview for each year group 2022-2023

Half-Term	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
EYFS	Explore technology in classroom, iPad, listening centre.	Investigate toys that use ICT or have moving parts.	To become familiar navigating an iPad. Smartie the Penguin - Online Safety	Using technology to record different events, microphones, camera, iPad.	Know how simple ICT works Use age-appropriate software, paint program.	Know how to type their name on a keyboard (In preparation for Year 1)
	Ongoing theme throughout the year: Personal Safety (+ Stranger Danger) Online Safety					
Year 1 Curriculum	<p><u>Using Technology Safely</u> Privacy and Security</p> <p><u>Information Technology - Knowledge of technology and its uses</u></p> <p>To identify IT across the home such as a TVs, mobile phones, computers, iPods, music systems, games consoles and tablets. To know the names of some basic parts of a computer i.e. mouse, screen, keyboard. Use year group visits to explore uses of computing.</p>	<p><u>Using Technology Safely</u> Online Relationships</p> <p><u>Information Technology - Usage of skills</u></p> <p>To be able to log on/off. To be able to open software. To be able to exit software. To use a simple paint or writing program to produce work To begin to change colour and brush on paint.</p>	<p><u>Using Technology Safely</u> Online Bullying</p> <p><u>Computer Science</u></p> <p>To be able to log on/off. To be able to open software. Understand what an algorithm is- a set of pictures/flow chart/written instructions to show their idea of how something will work, such as instructions for making a jam sandwich. Can follow a simple algorithm, e.g. following another</p>	<p><u>Using Technology Safely</u> Managing Online Information</p> <p><u>Information Technology - Knowledge of technology and it's uses</u></p> <p>To explore different technology in the classroom: taking photographs on iPads, finding photos, deleting etc. To recap parts of the computer and identifying IT across home and school.</p>	<p><u>Using Technology Safely</u> Health, Well-being and Lifestyle Copyright and ownership</p> <p><u>Information Technology - Usage of skills</u></p> <p>To open and close a range of software. To type simple sentences on documents - word, powerpoint, textease. Use technology purposefully to create digital content.</p>	<p><u>Using Technology Safely</u> Self-image and Identity Online Reputation</p> <p><u>Computer Science</u></p> <p>To recap the previous algorithm work. To use programmable toys to code and identify and correct errors.</p>

West End Primary School Computing Overview for each year group 2022-2023

			<p>child's precise command. Can give a simple algorithm, e.g. can give another child precise commands. Throughout these, the children will identify and correct errors.</p>			
<p>Year 2 Curriculum</p>	<p>Using Technology Safely Privacy and Security</p> <p>Information Technology - Usage of skills (1)</p> <p>To be able to find and open a file from a specific folder.</p> <p>To be able to save work to a specific folder.</p> <p>Is able to highlight text, change the size, font and colour of text.</p> <p>To copy, paste and insert pictures.</p> <p>On Word</p>	<p>Using Technology Safely Online Relationships</p> <p>Information Technology - Knowledge of technology and its uses (1)</p> <p>To develop their language and understanding of IT across the home and school, and name all the parts of the computer.</p> <p>To understand how library systems/shops-bank cards-contactless work with barcodes.</p> <p>Use year group visits to explore uses of Computing.</p>	<p>Using Technology Safely Online Bullying</p> <p>Computer Science (1)</p> <p>To understand what an algorithm is.</p> <p>Can create an algorithm that involves a sequence, e.g. for a Beebot or ALEX (iPad)</p> <p>Can identify errors within algorithms and correct them.</p> <p>To look at an algorithm and predict what it might go wrong.</p>	<p>Using Technology Safely Managing Online Information</p> <p>Information Technology - Usage of skills (2)</p> <p>To revisit skills learnt in last Usage of Skills unit.</p> <p>To copy, paste and insert pictures.</p> <p>To be able to add sounds.</p> <p>To be able to speed sounds up and slow them down.</p> <p>On PowerPoint</p>	<p>Using Technology Safely Health, Well-being and Lifestyle Copyright and Ownership</p> <p>Information Technology - Usage of skills (3)</p> <p>To learn a variety of skills on the iPads such as taking and editing photos, filming, typing, searching etc.</p>	<p>Using Technology Safely Self-Image and Identity Online Reputation</p> <p>Computer Science (2)</p> <p>Recap knowledge on algorithms.</p> <p>To start to develop Scratch skills using Scratch Jr.</p> <p>To use basic blocks to code on Scratch Jr.</p>

West End Primary School Computing Overview for each year group 2022-2023

<p>Year 3 Curriculum</p>	<p><u>Using Technology Safely</u> Privacy and Security</p> <p><u>Information Technology - Usage of Skills (1)</u></p> <p>To be able to open a new or existing document</p> <p>To be able to manipulate text/spell-check work.</p> <p>To be able to import images from clipart.</p> <p>To be able to create text boxes.</p> <p>To use word art to create titles. On Word and PowerPoint</p>	<p><u>Using Technology Safely</u> Online Relationships</p> <p><u>Computer Science (1)</u> To create a sequence of instructions that follow each other. Throughout these, the children will identify and correct errors, with support and prompts.</p> <p>To create simple blocks of code that pupils can explain in a single sentence that could use repeat loops.</p> <p>On Scratch Jr</p>	<p><u>Using Technology Safely</u> Online Bullying</p> <p><u>Information Technology - Knowledge of Technology and its uses</u></p> <p>Understand the concept of electronic mail.</p> <p>To be able to send, receive and reply to mail</p> <p>Send, using a subject heading, to a known member of the school community e.g. another class teacher, bursar. Using class Office emails</p>	<p><u>Using Technology Safely</u> Managing Online Information</p> <p><u>Information Technology - Usage of Skills (2)</u></p> <p>Use cut, copy and paste to refine and re-order content.</p> <p>Is able to create a blank publication and change orientation/ print preview/ insert and delete new pages/ insert background colours. On PowerPoint and Publisher</p>	<p><u>Using Technology Safely</u> Health, Well-being and Lifestyle Copyright and Ownership</p> <p><u>Computer Science (2)</u> To create a sequence of instructions that follow each other. Throughout these, the children will identify and correct errors, with support and prompts.</p> <p>To create simple blocks of code that pupils can explain in a single sentence that could use repeat loops.</p> <p>On Scratch (not Jnr)</p>	<p><u>Using Technology Safely</u> Self-Image and Identity Online Reputation</p> <p><u>Information Technology - Usage of Skills (3)</u></p> <p>To use all skills learnt so far to produce/ present work based on Topic. Children choose which software they would like to use: Word, PowerPoint or Publisher.</p> <p>To justify why they have chosen that particular software.</p>
<p>Year 4 Curriculum</p>	<p><u>Using Technology Safely</u> Privacy and Security</p> <p><u>Information</u></p>	<p><u>Using Technology Safely</u> Online Relationships</p>	<p><u>Using Technology Safely</u> Online Bullying</p> <p><u>Information Technology - Knowledge of</u></p>	<p><u>Using Technology Safely</u> Managing Online Information</p> <p><u>Computer Science</u> -To create code that uses simple selection.</p>	<p><u>Using Technology Safely</u> Health, Well-being and Lifestyle Copyright and Ownership <u>Information Technology - Knowledge of Technology and its uses</u></p>	<p><u>Using Technology Safely</u> Self-Image and Identity Online Reputation <u>Computer Science</u></p>

West End Primary School Computing Overview for each year group 2022-2023

	<p><u>Technology - Usage of Skills</u></p> <p>Is able to insert table /add and delete rows/add and delete columns.</p> <p>Is able to change margins/use tabulation/insert page breaks/add page numbers/wrap text round images/indent text on a page/ insert symbols.</p> <p>On Word</p>	<p><u>Information Technology - Usage of Skills</u></p> <p>Make effective use of transitions and animations in presentations, transitions, movement, importing pictures and using special effects on images.</p> <p>On PowerPoint</p>	<p><u>Technology and its uses</u></p> <p>Extend online publishing to a more global audience, e.g. creating and publishing web pages, blog and podcasting.</p> <p>On Google sites</p>	<p>- To create code that uses a simple variable</p> <p>On Scratch</p>	<p>Is able to attach documents to emails independently, and with regard for eSafety</p> <p>Using class office emails</p> <p>Make use of webcams and /or video conferencing, if appropriate and available, e.g., to exchange ideas and collaborate on projects with external providers, another class or school, or abroad.</p> <p>On Google Meets</p>	<p>-To create code that uses simple selection.</p> <p>- To create code that uses a simple variable</p> <p>On Minecraft Education</p>
<p>Year 5 Curriculum</p>	<p><u>Using Technology Safely</u> Privacy and Security</p> <p><u>Computer Science (1)</u></p> <p>Use repetition and selection in programs.</p> <p>Use variables in programs.</p> <p>Design and create programs using decomposition.</p>	<p><u>Using Technology Safely</u> Online Relationships</p> <p><u>Information Technology - Usage of Skills</u></p> <p>Use video editing software including audio and voice overs.</p> <p>Using Apple Clips and Windows Movie Maker</p> <p>To use stop-motion animation and green screen to create videos.</p>	<p><u>Using Technology Safely</u> Online Bullying</p> <p><u>Information Technology - Knowledge of Technology and its uses</u></p> <p>To understand a network as a group or system of interconnected people or things.</p>	<p><u>Using Technology Safely</u> Managing Online Information</p> <p><u>Information Technology - Usage of Skills</u></p> <p>Use appropriate editing tools to ensure their work is clear and error free, e.g. spell checker, thesaurus, find and replace.</p> <p>Select suitable text, sounds and graphics</p>	<p><u>Using Technology Safely</u> Health, Well-being and Lifestyle Copyright and Ownership</p> <p><u>Computer Science (2)</u> Explore the effects of changing variables in models and simulations in order to solve a problem.</p> <p>To create code that uses multiple variables that interact with each other.</p> <p>On Minecraft Education</p>	<p><u>Using Technology Safely</u> Self-Image and Identity Online Reputation</p> <p><u>Information Technology - Usage of Skills</u></p> <p>Can use a database and use a simple formula, e.g. SUM, search, match and order contents of a single field.</p> <p>Based on the data, raise a question and translate</p>

West End Primary School Computing Overview for each year group 2022-2023

	<p>Design programs to accomplish specific tasks or goals.</p> <p>Use logical reasoning to develop systematic strategies that can be used to debug algorithms and programs.</p> <p>To create code that uses multiple variables that interact with each other. On Scratch</p>	<p>Using Green Screen Software</p>	<p>To understand the terms server, hub, router, wireless point, switch point and firewall.</p> <p>To use the above to draw and annotate how the school network works.</p>	<p>from other electronic sources, and import into own work.</p> <p>Create a publication from a template/show the task pane/put borders around text boxes/drop cap/insert shapes/rotate text boxes/insert header and footer/insert tables/insert audio.</p> <p>To be able to layer text and objects/send back text and objects/bring forward text and objects. On PowerPoint</p>		<p>this into a search criteria in order to answer it.</p> <p>Enter the correct formula into cells and predict the outcome of changing variables. On Excel</p>
<p>Year 6 Curriculum</p>	<p><u>Using Technology Safely</u> Privacy and Security</p> <p><u>Information Technology - Knowledge of technology and it's uses</u></p> <p>To understand how the internet network is set up in the home and how</p>	<p><u>Using Technology Safely</u> Online Relationships</p> <p><u>Information Technology - Usage of Skills</u></p> <p>To design, create a range of programs, systems and content that accomplish given goals including</p>	<p><u>Using Technology Safely</u> Online Bullying</p> <p><u>Computer Science</u></p> <p>To recap all prior Computer Science skills taught.</p> <p>To justify their selection of variables and predict what</p>	<p><u>Using Technology Safely</u> Managing Online Information</p> <p><u>Information Technology - Usage of Skills</u></p> <p>Use video editing software including green screen - creating a promotional video for our school.</p>	<p><u>Using Technology Safely</u> Health, Well-being and Lifestyle Copyright and Ownership</p> <p><u>Information Technology - Usage of Skills</u></p> <p>Develop the use of hyperlinks to produce more effective, interactive, non-linear</p>	<p><u>Using Technology Safely</u> Self-Image and Identity Online Reputation</p> <p><u>Computer Science</u></p> <p>To recap all prior Computer Science skills taught.</p> <p>To justify their selection of variables</p>

West End Primary School Computing Overview for each year group 2022-2023

	<p>a web page is accessed across the internet.</p> <p>To model how internet packets travel around the world via routers.</p> <p>To see how the Internet connects across the world.</p> <p>To see how the same route can take a different number of routers as the Internet directs packets along different routes.</p>	<p>collecting, analysing, evaluating and presenting data and information</p> <p>Excel and Google</p>	<p>might happen if alternative variables are chosen.</p> <p>Scratch</p>		<p>presentations.</p> <p>Google sites</p>	<p>and predict what might happen if alternative variables are chosen.</p> <p>Minecraft Education Edition</p>
--	--	---	--	--	--	---