



Christ the Sower Ecumenical Primary School Computing Curriculum Overview



EYFS

		Autumn	Spring	Summer
Online Safety and Digital Citizenship		<p style="text-align: center;"><u>How much time online?</u></p> <ul style="list-style-type: none"> Keeping myself healthy online Taking care when using technology <p>Webster's Bedtime by Hannah Whaley Dot by Randy Zuckerberg and Joe Berger</p>	<p style="text-align: center;"><u>Being Kind Online</u></p> <ul style="list-style-type: none"> Think about others Being a good friend <p>Websters Friend by Hannah Whaley Webster's Manners by Hannah Whaley</p>	<p style="text-align: center;"><u>Keeping Safe Online</u></p> <ul style="list-style-type: none"> Who are my trusted adults? Saying no <p>Webster's Email by Hannah Whaley Chicken Clicking by Jeanne Willis and Tony Ross</p>
Computing	Curriculum Strand	<u>Programming</u>	<u>Creating Media</u>	<u>Computing Skills</u>
	Unit Summary	<ul style="list-style-type: none"> Following instructions Giving instructions Sequencing instructions Solving problems Making predictions 	<ul style="list-style-type: none"> Mark making using a tablet Making patterns Ordering numbers Taking photographs 	<ul style="list-style-type: none"> Switching on a device Using a keyboard Using a mouse or track pad Signing in or logging on

Year 1

		Autumn	Spring	Summer
Online Safety and Digital Citizenship		<p><u>Introductory Song</u></p> <p>Media Balance</p> <p><i>How do we find a happy balance between our online and offline activities?</i></p> <p><i>Links to EYFS Autumn – How much time online?</i></p>	<p><u>Media Balance and Well being</u></p> <p>Pause for People</p> <p><i>How do you say goodbye to technology when you don't want to?</i></p> <p><i>Links to EYFS Autumn – How much time online?</i></p>	<p><u>Privacy and Security</u></p> <p>Safety in my Online neighbourhood</p> <p><i>How do you go places safely online?</i></p> <p><i>Links to EYFS Summer – Keeping Safe Online</i></p>
Computing	Curriculum Strand	<u>Computing Systems and Networks</u>	<u>Creating Media</u>	<u>Programming</u>
	Topic	Information and Technology Around Us	Digital Writing	Programming Animations
	Unit Summary	<p>Recognising technology in school and using it responsibly.</p> <p>Identifying IT and how its responsible use improves our world in school and beyond.</p>	<p>Using a computer to create and format text, before comparing to writing non-digitally.</p> <p><i>Links to EYFS Spring – Creating Media and Computing Skills</i></p>	<p>Designing and programming the movement of a character on screen to tell stories.</p> <p><i>Links to EYFS Autumn - Programming</i></p>

Year 2

		Autumn	Spring	Summer
Online Safety and Digital Citizenship		<p><u>Introductory song</u></p> <p>Pause & Think Online</p> <p><i>How can we be safe, responsible, and respectful online?</i></p>	<p><u>Media balance & well-being</u></p> <p>How Technology Makes You Feel</p> <p><i>Why is it important to listen to your feelings when using technology?</i></p> <p><i>Links to Year 1 Spring – Pause for people</i></p>	<p><u>Privacy & security</u></p> <p><u>Internet Traffic Light</u></p> <p><i>How do you stay safe when visiting a website or app?</i></p> <p><i>Links to Year 1 Summer– Safety online neighbourhood</i></p>
Computing	Curriculum Strand	<u>Data and Information</u>	<u>Creating Media</u>	<u>Programming</u>
	Topic	Grouping Data and Pictograms	Digital Photography	Robot Algorithms
	Unit Summary	<p>Exploring object labels, then using them to sort and group objects by properties.</p> <p>Collecting data in tally charts and using attributes to organise and present data on a computer.</p>	<p>Capturing and changing digital photographs for different purposes.</p> <p><i>Links to EYFS Spring – Creating Media and Year 1 – Information and Technology Around Us</i></p>	<p>Writing short algorithms and programs for floor robots and predicting program outcomes.</p> <p>Creating and debugging programs and using logical reasoning to make predictions.</p> <p><i>Links to EYFS Autumn - Programming and Year 1 Summer – Programming Animations</i></p>

Year 3

		Autumn	Spring	Summer
Online Safety and Digital Citizenship		<p><u>Introductory Song</u> We, the Digital Citizens: <i>How can we be good digital citizens?</i></p> <p><i>Recaps KS1 learning around being safe and responsible online.</i></p> <p><u>Privacy & Security</u> That's Private! <i>What kinds of information should I keep to myself when I use the internet?</i></p> <p><i>Links to Year 3 Summer</i></p>	<p><u>Digital Footprint & Identity</u> Digital Trails: <i>What information is OK to have in your digital footprint?</i></p> <p><i>This is an introduction which is built on in the second unit below;</i></p> <p><u>Relationships & Communication</u> <i>Who Is in Your Online Community?</i> <i>How are we all part of an online community?</i></p>	<p><u>Cyberbullying, Digital Drama & Hate Speech</u> <i>Putting a STOP to Online Meanness: What should you do if someone is mean to you online?</i></p> <p><i>Links to Year 3 Autumn - controlling online content about ourselves. .</i></p> <p><u>NEWS & MEDIA LITERACY</u> <i>Let's Give Credit!</i> <i>How can you give credit for other people's work?</i></p>
Computing	Curriculum Strand	<u>Computing Systems and Networks</u>	<u>Creating Media</u>	<u>Programming B</u>
	Topic	<u>Connecting Computers and the Internet</u>	<u>Desktop Publishing</u>	<u>Events and Actions in Programs</u>
	Unit Summary	<p>Identifying that digital devices have inputs, processes, and outputs, and how devices can be connected to make networks.</p> <p>Recognising the internet is a network of networks including the WWW, and why we should evaluate online content.</p> <p><i>Links to Year 1 Autumn – Information and Technology Around Us</i></p>	<p>Creating documents by modifying text, images, and page layouts for a specified purpose.</p> <p><i>Links to Year 1 Spring – Digital Writing</i></p>	<p>Writing algorithms and programs that use a range of events to trigger sequences of actions.</p> <p><i>Links to Year 1 Summer – Programming Algorithms and Year 2 Summer – Robot Algorithms</i></p>

Year 4

		Autumn	Spring	Summer
Online Safety and Digital Citizenship		<p><u>Media Balance & Well-Being</u> Your Rings of Responsibility: How do digital citizens take responsibility for themselves, their communities and their world?</p> <p><i>Links to Year 3 Spring – being a good online citizen</i></p> <p><u>Privacy & Security</u> Password Power-Up: How can a strong password help protect your privacy?</p>	<p><u>Digital Footprint & Identity</u> This Is Me: How does what I post online affect my identity?</p> <p><u>Relationships & Communication</u> Our Digital Citizenship Pledge: What makes a strong online community?#</p> <p><i>Links to Year 3 Spring and Year 4 autumn – being a good online citizen</i></p>	<p><u>Cyberbullying, Digital Drama & Hate Speech</u> The Power of Words: What should you do when someone uses mean or hurtful language on the internet?</p> <p><i>Links to Year 3 Autumn and summer – controlling online content about ourselves and being an upstander.</i></p> <p><u>NEWS & MEDIA LITERACY</u> What is real on the Internet? Is Seeing Believing? Why do people alter digital photos and videos?</p>
Computing	Curriculum Strand	<u>Data and Information</u>	<u>Creating Media</u>	<u>Programming</u>
	Topic	Branching Databases	Photo Editing	Repetition in Shapes and Games
	Unit Summary	<p>Building and using branching databases to group objects using yes/no questions.</p> <p><i>Links to Year 2 Autumn – Grouping Data and Pictograms</i></p>	<p>Manipulating digital images and reflecting on the impact of changes and whether the required purpose is fulfilled.</p> <p><i>Links to Year 2 Spring – Digital Photography</i></p>	<p>Using a text-based programming language to explore count-controlled loops when drawing shapes.</p> <p>Using a block-based programming language to explore count-controlled and infinite loops when creating a game.</p> <p><i>Links to Year 3 Summer – Events and Actions in Programs</i></p>

Year 5

		Autumn	Spring	Summer
Computing		<p><u>Media Balance & Well-Being</u> My Media Choices: What makes a healthy media choice?</p> <p>Links to Year 4 autumn – rings of responsibility</p> <p><u>NEWS & MEDIA LITERACY</u> A Creator's Rights and Responsibilities: What rights and responsibilities do you have as a creator?</p> <p>Links to Year 3 Summer - giving credit</p>	<p><u>Privacy & Security</u> Private and Personal Information: What information about you is OK to share online?</p> <p>Links to Year 3 Spring – Digital trails</p> <p><u>Digital Footprint & Identity</u> Our Online Tracks: How does our online activity affect the digital footprints of ourselves and others?</p> <p>Links to Year 3 Spring – Digital trails</p>	<p><u>Relationships & Communication</u> Keeping Games Fun and Friendly: How can I help myself and others be positive and have fun while playing online games?</p> <p>Links to Year 3 Spring – My online community †</p> <p><u>Cyberbullying, Digital Drama & Hate Speech</u> Be a Super Digital Citizen: How can we be upstanders when we see cyberbullying?</p> <p>Links to Year 3 Autumn and summer - controlling online content about ourselves and being an upstander Links to Year 4 = power of words .</p>
		<p>Curriculum Strand</p> <p><u>Computing Systems and Networks</u></p>	<p>Creating Media</p>	<p>Programming A</p>
		<p>Topic</p> <p>Systems and Searching</p>	<p>Webpage Creation</p>	<p>Selection in Physical Computing</p>
		<p>Recognising IT systems in the world and how some can enable searching on the internet.</p> <p>Links to Year 3 Autumn – Connecting Computers and the Internet</p>	<p>Designing and creating webpages, giving consideration to copyright, aesthetics, and navigation.</p> <p>Links to Year 1 Spring – Digital Writing, Year 2 Spring – Digital Photography, Year 3 Spring – Desktop Publishing and Year 4 Spring – Photo Editing</p>	<p>Exploring conditions and selection using a programmable microcontroller.</p> <p>Links to Year 3 Summer – Events and Actions in Programs and Year 4 Summer – Repetition in Shapes and Games</p>

Year 6

		Autumn	Spring	Summer
Online Safety and Digital Citizenship		<p><u>Media Balance & Well-Being</u> Finding My Media Balance: <i>What does media balance mean for me?</i></p> <p><i>Links to Year 3 Summer - giving credit</i></p> <p><u>Privacy & Security</u> You Won't Believe This! <i>What is clickbait and how can you avoid it?</i></p> <p><i>Links to Year 5 Spring – online information</i></p>	<p><u>Digital Footprint & Identity</u> Beyond Gender Stereotypes: <i>How do gender stereotypes shape our experiences online?</i></p> <p><i>Links to Year 3 Spring and Year 5 spring– Digital trails and online tracks</i></p> <p><u>Relationships & Communication</u> Digital Friendships: <i>How do you keep online friendships safe?</i></p> <p><i>Links to Year 3 Spring – My online community and year 5 keeping games friendly</i></p>	<p><u>Cyberbullying, Digital Drama & Hate Speech</u> <i>Is It Cyberbullying?</i> <i>What is cyberbullying and what can you do to stop it?</i></p> <p><i>Links to Year 3 Autumn and summer - controlling online content about ourselves and being an upstander Links to Year 4 = power of words and Year 5 upstanders and reporting abuse.</i></p>
		<p><u>Data and Information</u></p>	<p><u>Creating Media</u></p>	<p><u>Programming B</u></p>
		<p>Topic</p>	<p>Spreadsheets</p>	<p>3D Modelling</p>
<p>Unit Summary</p>	<p>Answering questions by using spreadsheets to organise and calculate data.</p> <p><i>Links to Year 4 Autumn – Branching Databases</i></p>	<p>Planning, developing, and evaluating 3D computer models of physical objects.</p>	<p>Exploring variables when designing and coding a game.</p> <p>Designing and coding a project that captures inputs from a physical device.</p> <p><i>Links to Year 3 Summer – Events and Actions in Programs, Year 4 Summer –</i></p>	

				<i>Repetition in Shapes and Games and Year 5 Selection in Physical Computing</i>
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