



Christ the Sower Ecumenical Primary School

Computing Curriculum Overview



EYFS

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

Year 2

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

Year 3

		Autumn	Spring	Summer
Online Safety and Digital Citizenship		<p><u>Introductory Song</u> We, the Digital Citizens: How can we be good digital citizens?</p> <p><i>Recaps KS1 learning around being safe and responsible online.</i></p> <p><u>Privacy & Security</u> That's Private! What kinds of information should I keep to myself when I use the internet?</p> <p><i>Links to Year 3 Summer</i></p>	<p><u>Digital Footprint & Identity</u> Digital Trails: What information is OK to have in your digital footprint?</p> <p><i>This is an introduction which is built on in the second unit below;</i></p> <p><u>Relationships & Communication</u> Who Is in Your Online Community? How are we all part of an online community?</p>	<p><u>Cyberbullying, Digital Drama & Hate Speech</u> Putting a STOP to Online Meanness: What should you do if someone is mean to you online?</p> <p><i>Links to Year 3 Autumn - controlling online content about ourselves. .</i></p> <p><u>NEWS & MEDIA LITERACY</u> Let's Give Credit! How can you give credit for other people's work?</p>
Computing	Curriculum Strand	<u>Computing Systems and Networks</u>	<u>Creating Media</u>	<u>Programming B</u>
	Topic	Connecting Computers and the Internet	Desktop Publishing	Events and Actions in Programs
	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>Links to Year 3 Spring – being a good online citizen</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>Links to Year 3 Spring and Year 4 autumn – being a good online citizen</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>Links to Year 3 Autumn and summer - controlling online content about ourselves and being an upstander.</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>Links to Year 2 Autumn – Grouping Data and Pictograms</p>	<p>Manipulating digital images and reflecting on the impact of changes and whether the required purpose is fulfilled.</p> <p>Links to Year 2 Spring – Digital Photography</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>Links to Year 3 Summer – Events and Actions in Programs</p>

Year 5

		Autumn	Spring	Summer
Online Safety and Digital Citizenship		<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>
Computing	Curriculum Strand	<u>Computing Systems and Networks</u>	<u>Creating Media</u>	<u>Programming A</u>
	Topic	Systems and Searching	Webpage Creation	Selection in Physical Computing
	Unit Summary	<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: What does media balance mean for me?</p> <p>Links to Year 3 Summer - giving credit</p> <p><u>Privacy & Security</u> You Won't Believe This! What is clickbait and how can you avoid it?</p> <p>Links to Year 5 Spring – online information</p>	<p><u>Digital Footprint & Identity</u> Beyond Gender Stereotypes: How do gender stereotypes shape our experiences online?</p> <p>Links to Year 3 Spring and Year 5 spring– Digital trails and online tracks</p> <p><u>Relationships & Communication</u> Digital Friendships: How do you keep online friendships safe?</p> <p>Links to Year 3 Spring – My online community and year 5 keeping games friendly</p>	<p><u>Cyberbullying, Digital Drama & Hate Speech</u> Is It Cyberbullying? What is cyberbullying and what can you do to stop it?</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 and Year 5 upstanders and reporting abuse.</p>
Computing	Curriculum Strand	<u>Data and Information</u>	<u>Creating Media</u>	<u>Programming B</u>
	Topic	Spreadsheets	3D Modelling	Variables in Games and Sensing Movement
	Unit Summary	<p>Answering questions by using spreadsheets to organise and calculate data.</p> <p>Links to Year 4 Autumn – Branching Databases</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>Links to Year 3 Summer – Events and Actions in Programs, Year 4 Summer –</p>

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