



At St Andrew's CE Primary School, we aim to bring children to a place where they can realise their full potential. Our Christian values are the foundation of all we do and each one is a facet of the central value, love, which 'always protects, always trusts, always hopes, always perseveres' (1Corinthians 13:7).

Computing Units Overview (with national curriculum links)

	Term 1	Term 2	Term 3	Term 4	Term 5	Term 6
Reception	International term	Celebrations / festivals	Journeys	Buildings / Easter	The Global Garden	The Great Outdoors
	<i>To know that the times of the day go in order and repeat everyday e.g. morning is before lunch time.</i>	<i>To know that people in our community celebrate special days Some of the special days repeat annually at the same time for everybody and some happen annually for them.</i>	<i>To know that we change what we do/wear in response to the passage of time</i>		<i>To know the sequence of life cycles</i>	<i>To know that the passage of time changes the world around us</i>
	Respond to new experiences that you bring to their attention. BeeBots – Unplugged with a Fakebot and with the Beebot robots.		Keep on trying when things are difficult. Now Press Play and introduction to Minecraft. Dash and Dot robots.			
Year 1	Internet Safety	Coding https://www.codeforlife.education/rapidrouter/	Information Technology (Ongoing) Paintz, Minecraft Education Edition, VRs, Now Press Play			Coding Educational Resources (makewonder.com)
	<i>Use technology safely. Understand how to get help from a trusted adult.</i>	<i>Understand what algorithms are.</i>	<i>Use technology purposefully to create (new) digital content.</i>	<i>Use technology purposefully to store (save) digital content.</i>	<i>Use technology purposefully to retrieve (open) digital content.</i>	<i>Create simple programs.</i>
Year 2	Internet Safety Digital Citizenship for Early Years and Primary Learners (UK) Common Sense Education	Coding Scratch app	Information Technology Dance Mat Typing Level 1 Stage 1 – HOME ROW (dancemattypingguide.com) Microsoft Paint, Now Press Play, VRs, Minecraft Education Edition			Coding Lego WE do Computational Thinking (lego.com)
	<i>Identify where to go for help and support when they have concerns about content or contact on the internet or other online technologies.</i>	<i>Understand that algorithms are implemented as programs on digital devices.</i>	<i>Use technology purposefully to organise digital content. Use technology purposefully to change text, colour, size and font of digital content.</i>			<i>Use logical reasoning to predict the behaviour of simple programs.</i>



Year 3	Internet Safety	Coding Course C (2024) - Code.org	Information Technology Z-Type - Play the Space Typing Game at Coolmath Games Monkeytype A minimalistic, customizable typing test Book Creator, Search Coach		Coding Robots
	<i>Use technology responsibly. Identify a range of ways to report concerns about contact to a trusted adult.</i>	<i>Write programs that accomplish specific goals. Use sequence in programs.</i>	<i>Use a variety of software to accomplish given goals. Design and create content.</i>	<i>Collect information. Present information.</i>	<i>Work with various forms of input. Work with various forms of output.</i>
Year 4	Internet Safety	Coding - Octostudio	Information Technology PowerPoint, Excel, Word, VRs, Now Press Play		Coding Micro:bits
	<i>Recognise acceptable / unacceptable behaviour. Identify a range of ways to report concerns about content.</i>	<i>Debug programs that accomplish specific goals. Use repetition in programs.</i>	<i>Select a variety of software to accomplish given goals. Collect data. Present data.</i>		<i>Use logical reasoning to detect and correct errors in programs.</i>
Year 5	Internet Safety	Coding CoSpaces	Information Technology OneNote, Excel, Canva, VRs, Now Press Play, Minecraft Education Edition		Coding Micro:bits
	<i>Recognise signs of phishing scams and spam emails. Know what cookies are and what they do.</i>	<i>Solve problems by decomposing them into smaller parts. Control or simulate physical systems.</i>	<i>Select use and combine software on a range of digital devices. Combine a variety of software to accomplish given goals. Analyse information. Evaluate information.</i>		<i>Use repetition in programs. Use logical reasoning to explain how some simple algorithms work.</i>
Year 6	Internet Safety	Coding CoSpaces	Information Technology VR, Excel, ThingLink, Now Press Play, Minecraft Education Edition		Coding Micro:bits MakeCode
	<i>Understand the opportunities computer networks offer for collaboration.</i>	<i>Solve problems by decomposing them into smaller parts. Control or simulate physical systems.</i>	<i>Expansion & Dissolution of Empires A significant turning point in British history Changes in aspects of social history</i>		<i>Use repetition in programs. Use logical reasoning to explain how some simple algorithms work.</i>



Computing Progression of Skills – VOCABULARY

	YR	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Computing knowledge – Digital Literacy	On Off Backwards Forward Instruction Sound Moving Electronic Worried Secret Help Wellbeing Trusted adult	Trusted adult Balance Device Frustrated Pause Online Website App Cyberbullying Online bullying Block others Research Kind online Private	Technology Personal information Cyberbullying Block Browse Search engine Safety Browser/webpage Trusted adult Clicking on unknown boxes Kind on the internet Personal information Real/fake Password Protection E-Safety/internet safety	Trusted adult Search engine Autocomplete Belief Opinion True Fact False/fake Responsibly Report Contact Digital footprint Online bullying Communication	Trusted adult Sharing information online Judgement Accuracy Methods Generating Funds Belief Content Acceptable/unacceptable behaviour Trusted adult Impersonate Fake news True/fact	Online identity Report issues Trusted adult Strong password Phishing Spam Cookies Search Coach Websites ranked	Trusted adult Share information Collaboration Comment or tag online Digital footprint Copyright Fake news Digital media Cross-reference Misinformation Disinformation

	<u>YR</u>	<u>Year 1</u>	<u>Year 2</u>	<u>Year 3</u>	<u>Year 4</u>	<u>Year 5</u>	<u>Year 6</u>
Computing knowledge – Information Technology	On Off Backwards Forward	Make new - create Sort out - organise Save /keep your work safe - store	Create Organise Store Retrieve Edit/Crop Audio/sound/record Zoom in/out Login	Safe Navigate Sponsored Search engine Search Coach Tab Teams	SUM Spreadsheet Cells Row Column Formulae Formula wizard PDF	SUM Spreadsheet Cells Row Column Formulae Formula wizard	Immersive Video Film Transition Captions Weblinks



	Instruction	Make changes to your work - manipulate	Search	Show to others (present)	Webpage	PDF	Content library
	Sound	Find where you saved your work and open - retrieve	Technology	Look for work (search)	Text	Webpage	Digital ink
	Moving	Websites	Italic/bold	Branching database	Formatting	Text	Collaborate
	Electronic	Icons	Spellchecker/Editor	Pictogram	Video	Formatting	
	Worried	Enter	Copy/paste/cut/underline	Collecting	Images	Video	Text
	Secret	Delete	Multimedia	Evaluating	Import	Images	Spreadsheets
	Help	Keys	File	Analysing	Look for work (search)	Import	Functions
	Wellbeing	Image	Information	Charts		Look for work (search)	Formatting
	Trusted adult		Line	Recording	Branching database	Branching database	Calculation
			Shape	Logging on	Pictogram	Pictogram	Evaluating data
			Fill	Password	Collecting	Collecting	Analysing data
			Undo	Import	Evaluating	Evaluating	
			Erase	Images	Charts	Analysing	
			Brush	Crop	Recording	Charts	
			Text	Alter	Logging on	Recording	
			Colour	Modify	Password	Logging on	
			Size	Copy/paste	Import	Password	
			Font		Images	Import	
					Crop	Images	
					Alter	Crop	
					Modify	Alter	
					Copy/paste	Modify	
						Copy/paste	



	<u>YR</u>	<u>Year 1</u>	<u>Year 2</u>	<u>Year 3</u>	<u>Year 4</u>	<u>Year 5</u>	<u>Year 6</u>
Computing knowledge – Computer Science		implement execute Algorithm logical reasoning Precise Error (bug) Debug Program Workspace Run Pattern	Code Event Loop Repeat Algorithm Implement Execute Bug/Debug Predict Logical reasoning Control Sequence Select Repetition Command	Input Output Variable Sequence Instructions Repeat Loop Commands Repetition Program Single Multiple Input Output Errors Blocks Place Signs Portfolio Multiplayer Collaborate Structure	Decompose into smaller parts Select If/Else block Action Condition Met Repetition	Decompose into smaller parts Select If/Else block Action Condition Met Repetition Algorithm Selection	Component Process Device Control Computer networks Algorithm Variables Logical reasoning