Holy Cross Catholic Primary - Skills & Progression in Computing



		EYFS	Year 1&2 (Year A)	Year 1&2 (Year B)	Year 3	Year 4	Year 5	Year 6
	ig systems and networks	Recognise and explore technology used at home and in school (e.g., cameras, tablets, interactive boards). Understand that technology helps us in daily life. Pupils can identify simple technology and understand its purpose in familiar settings.	computer (mouse, keyboard, screen) and know their basic functions. Begin to log on and shut down independently. Pupils can confidently use simple hardware	Understand that devices are	Explore input/output and how devices work together. Understand the basic concept of the internet. Pupils can explain how digital systems connect and communicate.		Understand search engines, indexing and online safety. Explore cloud-based tools. Pupils can use the internet efficiently and evaluate digital sources.	Understand how data is transferred securely online. Explore internet services and digital citizenship. Pupils can explain how digital systems support communication and data protection.
:	Creating Meala	Use simple digital devices to create images or sounds (e.g., take a photo, use a drawing tool). Talk about what they've made. Pupils can use digital tools to make simple media and describe their creations.	and draw pictures. Understand how to	Use software to create simple digital stories with images and audio. Begin to make decisions about layout and design. Pupils can combine media for storytelling with increasing independence.	Create digital animations or presentations. Develop use of software tools for formatting and editing. Pupils can plan and produce multimedia content with purpose.	Create audio, video or slideshows using a range of software. Include text, images, transitions and sound. Pupils can create and refine multimedia content for different audiences.	Plan and produce audio or video recordings. Edit for clarity and impact. Pupils can evaluate and improve digital work based on feedback.	Design interactive content (e.g., web pages). Use hyperlinks, layout and multimedia elements effectively. Pupils can design purposeful digital products with a user in mind.
	Dara ana information	Sort objects into groups based on basic criteria (e.g., colour, size) using physical and pictorial representations. Pupils can classify and organise using simple categorisations.	pictograms. Sort objects using software. Pupils can represent data digitally and begin to interpret it.	Use software to organise and present data (e.g., charts, tables). Ask and answer simple questions about data. Pupils can create digital representations of data and draw conclusions from them.	Build and use branching databases to classify and sort data. Pupils can organise and present data logically.	Collect, present and analyse data using spreadsheets or survey tools. Pupils can organise and interpret data to draw clear conclusions.	Use spreadsheets to collect, analyse and graph data. Understand formulas. Pupils can use digital tools to solve real- world data problems.	Plan and carry out data collection, then analyse and present findings using advanced digital tools. Pupils can interpret and present data clearly, drawing reasoned conclusions.

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Programming	Use simple programmable toys (e.g., Bee-Bots) to follow a set of instructions. Understand 'forwards', 'backwards', and 'turn'. Pupils can create simple sequences using clear directional instructions.	based programming (e.g., ScratchJr) to create simple sequences. Pupils can create and debug basic	Design, write and debug simple programs with sequencing. Understand the need for clear instructions. Pupils can predict outcomes and identify errors in their code.	Use repetition and loops in Scratch. Begin to use logical reasoning. Pupils can write programs that include repetition and test for accuracy.	Use variables and loops in block-based programming. Break problems into steps. Pupils can create structured programs with more complexity.	Use logical reasoning, selection, and variables in programs. Test and debug effectively. Pupils can write, test and refine more sophisticated code.	Design, write and debug complex programs with different inputs/outputs (e.g., micro:bit). Evaluate performance. Pupils can develop scalable, interactive programs for specific goals.
Online Safety	Know how to use technology safely in the classroom. Understand that personal information should not be shared. Recognise when something seen online makes them feel uncomfortable and tell an adult.		it should be protected. Identify signs of unsafe websites or behaviour.	Recognise reliable sources online. Understand how to create strong passwords and keep them secure. Know what to do if something inappropriate appears online.	Understand the risks of sharing content and the permanence of digital footprints. Begin to explore safe social media behaviour. Know how to report online concerns.	Evaluate online sources for credibility. Understand privacy settings and how to block/report inappropriate behaviour. Discuss online relationships and digital responsibility.	Understand online reputation and the impact of online behaviour. Discuss cyberbullying, misinformation, and how to manage screen time. Apply strategies for managing online risks and know how to seek help.