St. Peter's Church of England Junior School

'Learning to Live Life in all its Fullness'

Computing at St. Peter's Church of England Junior School

KAPOW Scheme of Work

	Autumn	Spring	Summer
Year 3	**Online Safety** • The rules of social media • Sharing information • Beliefs, opinions or facts? **Computer Systems and Networks - Networking** • What is a network and how do websites work?	**Programming** • Using loops • Making an animation • programming a game **Computer Systems and Networks - Email** • Using Microsoft 365 • How email works • How to send an email	**Computer Systems and Networks – Journey inside a computer** • Computer memory • Inputs and outputs • Dismantling a tablet **Data Handling** • Using Microsoft 365 • comparing and handling data
Year 4	**Online Safety** • Safe use of the internet. • Fact opinion or belief? • What is a bot? **Computer Systems and Networks - Email** • Using Microsoft 365 - collaborative learning	**Programming - Coding** • Using the programme Scratch - coding and debugging **Programming – Computational Thinking** • Decomposition. • Abstraction and pattern recognition • Algorithm design	**Data handling - Investigations** • Investigation • Data collection • Processing and comparison **Creating Media - Web Design** • The process behind designing and building a website.
Year 5	**Online Safety** • Our protection, communication and reputation online • Our online health	**Computer Systems and Networks - Search Engines** • Using search engines and identifying inaccurate information	**Crating Media - Stop Motion** • Stop motion design • decomposition and creation

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	Programming - Music • Writing algorithms • Using loops in programming.	**Data Handling - The Mars Rover 1** • The use of binary code • Computer architecture	**Skills Showcase - The Mars Rover 2** • Using CAD • Compressing images • Decoding
Year 6	**Online Safety** • Life online • Creating a positive online reputation • Protection of passwords **Computer Systems and Networks – Bletchley Park** • Coding • Protecting our details from hacking incidents	**Programming - Introduction to Python** • Using nested loops • Coding within the Python program **Data Handing - Big Data** • Barcodes • Transmitting and transporting data	**Creating Media – The History of Computers** • The first computers • Computers that changed the word • The future of the computer **Data Handling – Big Data** • The transfer of data • The usage of data • Designing and presenting