Kapow Primary™

Suggested long-term plan: Computing - Overview (EYFS and KS1)

Years 1-6 include an Online Safety unit each. See the: Guidance: How to fit in our Online safety units for information about how to include these in your curriculum time. All units have five lessons unless otherwise stated.

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2	Online Safety
EYFS	**Set up continuous provision in your classroom:** **Computing through continuous provision**	Computing systems and networks	Programming 1	Computing systems and networks	Programming 2	Data handling	
		Using a computer Learning about the main parts of a computer and how to use the keyboard and mouse. Learning how to log in and out.	**All about instructions** The children learn to receive and give instructions and understand the importance of precise instructions.	**Exploring hardware** Tinkering and exploring with different computer hardware and learning to operate a camera.	**Programming Bee-Bots** Children learn about directions, experiment with programming a Bee-bot/Blue-bot and tinker with hardware.	**Introduction to data** Children sort and categorise data and are introduced to branching databases and pictograms.	
Year 1	Computing systems and networks	Programming 1	Skills showcase	Programming 2	Creating media	Data handling	Online safety
	Improving mouse skills	**Algorithms unplugged**	**Rocket to the moon**	**Programming Bee-bots** Option 1: Bee-Bots Option 2: Virtual Bee-bots	**Digital imagery** Option 1: Google Option 2: Microsoft Office 365	**Introduction to data**	**Online safety Y1** (4 lessons)
Year 2	Computing systems and networks 1	Programming 1	Computing systems and networks 2	Programming 2	Creating media	Data handling	Online safety
	What is a computer?	**Algorithms and debugging**	**Word processing** Option 1: Google Option 2: Microsoft Office 365	**Programming: ScratchJr**	**Stop Motion** Option 1: Using tablet devices Option 2: Using cameras Option 3: Devices without cameras	**International Space Station**	**Online safety Y2**

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	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2	Online Safety
Year 3	Computing systems and networks 1	Programming	Computing systems and networks 2	Computing systems and networks 3	Creating media	Data handling	Online safety
	Networks and the internet Option 1: Google) Option 2: Microsoft Office 365	**Programming: Scratch**	**Emailing** Option 1: Google Option 2: Microsoft Office 365	**Journey inside a computer**	**Video trailers** Option 1: Using devices other than iPads , Option 2: Using iPads	**Comparison cards databases** Option 1: Google Option 2: Microsoft Office 365	**Online safety Y3** (4 lessons)
Year 4	Computing systems and networks	Programming 1	Creating media	Skills showcase	Programming 2	Data handling	Online safety
	Collaborative Learning Option 1: Google Option 2: Microsoft Office 365	**Further coding with Scratch** Option 1: Google Option 2: Microsoft Office 365	**Website design** Option 1: Google Option 2: Microsoft Office 365	**HTML**	**Computational thinking**	**Investigating weather** Option 1: Google Option 2: Microsoft Office 365	**Online safety Y4** (6 lessons)
Year 5	Computing systems and networks	Programming 1	Data handling	Programming 2	Creating media	Skills showcase	Online safety
	Search engines Option 1: Google Option 2: Microsoft Office 365	**Programming music** Option 1: Sonic Pi , Option 2: Scratch	**Mars Rover 1**	**Micro:bit**	**Stop motion animation** Option 1: Stop motion studio Option 2: Using cameras	**Mars Rover 2**	**Online safety Y5**
Year 6	Computing systems and networks	Programming	Data handling	Creating media	Data handling	Skills showcase	Online safety
	Bletchley Park Option 1: Google Option 2: Microsoft Office 365	**Intro to Python**	**Big data 1**	**History of computers** Option 1: Google Option 2: Microsoft Office 365	**Big data 2**	**Inventing a product** Option 1: Google Option 2: Microsoft Office 365	**Online safety Y6** (6 lessons)