Computing Long Term Plan

Year	AUTUMN		SPRING	SUMMER
Year 1	Cross-curricular computing opportunities ongoing throughout the year			
	Key Skills: mouse control & keyboard skills		Key Skills: saving & printing their own work	Key Skills: application of skills learnt so far
	E Safety SMART staying SMART online My Personal Information Twinkl How to act if find inappropriate content	Using technology Use keyboard skills to type in simple usernames and passwords. Launch appropriate programmes to task. Open and close a piece of equipment safely.	Algorithms and programs Plan a journey for a programmable toy *Bee Bots* Create a series of instructions to move around a course Know that commands affect algorithms. Create and debug a simple program.	Communicating and presentation The difference between e-books and story books. Share e-books with class. Add animation. Add sound. Position new sprites edit sprites and add and remove them Program a car/sprite to move/repeat actions and change speed
	E Safety – revisited throughout the year Using Technology – references made across the curriculum (cross-curricular opportunities)			
Year 2	How do we communicate safely online, including sending emails? Purple Mash Unit 2.2 **Algorithms and Programs**		Control and Input Purple Mash 2 Go Challenges (1-8) Use of the Probot to travel across a floor grid	**Algorithms and Programs** Espresso Coding Continuation of Level 2 **Communicating and Presentation**

	Espresso Coding **Start Level 2** **(including refresher lessons Level 1)**		**Data Retrieving and Organising** How can we use effective questioning to find out information? Purple Mash Unit 2.4 including binary trees		Know digital content can be represented in many forms. Add clip art. Add photos. Structure information in a table. Manipulate and present digital content and information. Purple Mash – 2.8 Presenting ideas	
Year 2	e - Safety – revisit and reinforce at the start of each term. Using technology – reinforce across the curriculum. Save work to a folder and retrieve when needed. Understand how to edit and copy information. Capture a digital image, retrieve and manipulate. Explore technology in a range of jobs and look at the purposes of their uses and why they are needed for a variety					
Year 3	E Safety to include emails	Data retrieving and organising (Introduction to Databases)	Communicating and Presentation (Desktop Publishing)	Algorithms and Programs (Espresso Coding)	Algorithms and Programs (Espresso Coding)	Communicating and Presentation (Manipulating Sounds)
	E Safety – revisit and reinforce at the start of each term. *Using technology – reinforce across the curriculum.*					
Year 4	E Safety to include emails Domain Name	Data retrieving and organising	Algorithms and Programs Decomposition Abstraction		Communicating and Presentation	Communicating and Presentation Hyperlink

	Search Engine					Loop URL
Year 4	E Safety – revisit and reinforce at the start of each term. *Using technology – reinforce across the curriculum.* Browser Tab					
Year 5	E Safety Mis-information Dis-information Hoax Geolocation Profile	Spreadsheets	3D Modelling	Algorithms and Programs (1)	Algorithms and Programs (2)	Communicating and Presentation
	E Safety – revisit and reinforce at the start of each term. Using technology – reinforce across the curriculum.					
Year 6	E-Safety PEGI BBFC Influence Manipulation Password Managers Scams Phishing	Data retrieving and organising	Algorithms and Programs		Communicating / Presentation Screen Grab	

	E Safety – revisit and reinforce at the start of each term. Using technology – reinforce across the curriculum.			