Year 2

Below outlines the learning focus for each term

Term	Learning Focus		Conceptual Development	
	Knowledge	Skills		
Autumn 1	Computer Science To understand that an algorithm is a set of instructions that we give to a computer To understand that programs respond to different sorts of input (keyboard and mouse)	To program objects to move, hide, show and turn when a key is pressed (key press events) To program objects to move by pressing and releasing the mouse button (pointer pressed/released events) To create a loop (repeating set of instructions) To program objects to match the mouse pointer's position	Build upon: To create a more advanced app that combines start events and click events Prepare for: To create a program where objects can be used to control other objects (buttons)	
Autumn 2	Information Technology To understand that MS Paint can be used create digital art	To change the colour and size of dots To draw lines and fill spaces with colour To rotate, resize and colour shapes To produce lighter and darker shades of a colour To duplicate and alter colours of an image To save and retrieve digital content	Build upon: To paint with different colours and brushes To insert shapes and text Prepare for: To create digital publications in MS Publisher	
Spring	Computer Science To understand that an algorithm is a set of instructions that we give to a computer To understand that buttons are a type of computer input	To program buttons to control other objects (button click events) To add and name new buttons on the design screen To practise debugging code	Build upon: To create a simple program where programs respond to different sorts of inputs (keyboard and mouse) Prepare for: To code a sequence of commands to create simple animations and simulations	
Summer 1	Information Technology To understand that MS PowerPoint can be used to create digital presentations	To insert and format the layout of slides To insert images by copying and pasting To insert and format text boxes To add animations to images and text boxes To add transitions to slides To save and retrieve digital content	Build upon: To type, select and format text in MS Word Prepare for: To create digital branching quizzes in MS PowerPoint	
Summer 2	Computer Science To understand that algorithms are implemented as programs on digital devices To understand that programs execute by following precise and unambiguous instructions	To add and remove characters and backgrounds To program a character to grow and shrink To make characters move at different speeds and distance To use a repeat instruction to make a sequence	Build upon: To program a Bee-Bot to move across a floor mat Prepare for: To program buttons to control other objects (button click events) in Espresso Coding	

		of instructions run more than once	
		To create programs that play a recorded sound	
Online	Digital Literacy	To keep personal information private	Build upon:
Safety	To understand that the information I put online leaves a	To use keywords in an online search to find key	To sort personal information into safe and not safe
Lessons (1	digital footprint	information about a topic	to share
per half	To understand how to safely search using search engines	To use search engines and websites appropriate	Prepare for:
term)	To recognise whether a website is appropriate for children	for children	To understand how websites use digital footprints
		To be able to identify kind and unkind behaviour	to target advertising
		online	