## <u>Year 6</u>

Below outlines the learning focus for each term

Theme: To create responsible digital citizens who make smart choices online					
Term	Learning Focus		Conceptual Development		
	Knowledge	Skills			
Autumn 1	<b>Computer Science</b> To understand what variables can be used beyond programming timers and game scores To understand that variables can be used to create logical statements that are either true or false (Boolean expressions)	To use variables to ask the user for an input To use variables to affect the difficulty of a game To combine variables with conditional events To use variables to perform calculations To use Boolean expressions To debug code	Build upon: To create game simulations that use random numbers to control speed and direction Prepare for: To program games where objects match the speed and direction of the mouse		
Autumn 2	Information Technology To understand that MS Excel can be used to store, organise and calculate data	To enter data and formulas into a spreadsheet To present data based on calculations by inserting a graph To use formulas to calculate totals and averages To sort data by different criteria To create a formula to solve a specific problem (using figures and cell references) To replicate formulas over several cells To plan and calculate a spending budget	Build upon: To create a spreadsheet that stores and presents data about a sports competition Prepare for: To achieve challenging goals that involve collecting and analysing data		
Spring	<b>Computer Science</b> To understand how code can detect property values and parameters of objects	To use random numbers, variables and conditional events to affect an object's properties To detect properties of objects and apply these to other objects To detect the speed and direction of the mouse and pass these onto objects	Build upon:To use variables in more complex ways to program simulationsPrepare for:To design, use and evaluate computational abstractions that model the state and behaviour of real-world problems and physical systems		
Summer	Information Technology To understand what a documentary is	To plan additional elements for film-making such as locations and props To evaluate whether information is reliable or not To speak clearly into the camera when being recorded To frame an appropriate filming shot when interviewing To arrange video files to form a complete film using film editing software	Build upon:   To create a school radio podcast   Prepare for:   To undertake creative projects that involve   selecting, using, and combining multiple   applications, preferably across a range of devices		

Online	Digital Literacy	To identify good strategies to deal with bullying	Build upon:
Safety	To know what cyberbullying is	To identify secure websites by identifying privacy	
Lessons (1	To know what a website is	seals of approval	To understand the potential dangers of spam email
per half	To understand the benefits and pitfalls of online relationships	To identify information that I should never share	
term)	To apply my online safety knowledge to my online activities	online	
	To know what phishing means	To choose appropriate actions to stay safe online	Prepare for:
		To identify different types of online scams,	To understand a range of ways to use technology
		including phishing	safely, respectfully, responsibly and securely,
			including protecting their online identity and
			privacy