Year 5

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	1	
Autumn 1	Computer Science To understand how computers use numbers to represent the properties of an object such as speed, direction and position	To program buttons to set or change the speed of an object To use positive and negative values To use keyboard inputs to change the speed and direction of an object To set values and use coordinates to control the movement of an object To debug code	Build upon: To create animations using loops, variables and conditions Prepare for: To create game simulations that use random numbers to control speed and direction	
Autumn 2	Computer Science To understand that a computer network is a collection of computer systems and other devices To understand the difference between the internet and the WWW To understand how search engines select results To understand how search engines rank results To understand the potential dangers of browsing the web	To name devices on a computer network To explain the purpose of certain devices on a computer network To simulate how the internet provides access to the WWW To create a search index To simulate how search engines rank results To evaluate webpages	Build upon: To understand how search engines work Prepare for: To identify secure websites by identifying privacy seals of approval	
Spring	Computer Science To understand how computers generate random numbers to control certain properties in a program to make things less predictable and more interesting To understand that a simulation is a computer program which models something from real life	To generate random numbers to control an object's speed To program an object to move in random directions and appear in random places To use different ranges of numbers to program objects to have different speeds and movements To create a virtual pinball game	Build upon: To create complex keyboard games that change the speed and direction of objects Prepare for: To use variables in more complex ways to program simulations	
Summer 1	Information Technology To understand that a website is a collection of connected webpages	To type using two hands To use a search engine to research the planets of the solar system To format text and images To create a hyperlink To publish a website To comment on the features and layout of a website	Build upon: To create a digital recipe using effective formatting Prepare for: To create a spreadsheet that calculates a party budget	

	Information Technology	To listen to different podcasts	Build upon:
	To understand that a podcast is a downloadable recording	To plan a podcast	To create a stop motion animation clip
Summer 2	To know what features make good quality audio content	To record and play their own audio using	Prepare for:
		recording software	To create and edit a film documentary
		To enhance sound recordings using software	
		effects	
		To listen to and improve their recordings by re-	
		recording	
		To record and play their own audio using	
		recording software	
		To enhance sound recordings using software	
		effects	
		To listen to and improve their recordings by re-	
		recording	
Online	Digital Literacy	To identify spam emails and what to do with	Build upon:
Safety	To understand the potential dangers of spam email	them	To understand the term 'plagiarism' and how to
Lessons (1	To understand why it is important to cite sources	To write citations for websites I use for research	avoid it
per half	To understand why having a strong password is important	To create strong passwords	
term)	To understand that not everything I see online is true	To explain how false photographs can make	Prepare for:
	To understand why it is important to be kind and respectful	people feel bad about themselves	To identify different types of online scams,
	online	To demonstrate ways to build positive and	including phishing
		healthy online relationships and friendships	