St Peter's Computing Curriculum Overview

Year 6		
PUPIL NAME		
Strand	**Learning Objectives**	**DATE OBJECTIVE MET**
Computer Science		
HARDWARE	Know how computers have evolved over time throughout history	
	Know how barcodes, QRcode and RFID codes work	
	We know about some causes of data corruption	
NETWORK & DATA	Understand computer networks including the internet; how they can provide multiple services, such as the world wide web; and the opportunities they offer for communication and collaboration	
	Know that computer networks provide multiple services	
CODING	Design, write and debug programs that accomplish specific goals, including controlling or simulating physical systems; solve problems by decomposing them into smaller parts	
	We can decompose a program into an algorithm	
	Use logical reasoning to explain how some simple algorithms work and to detect and correct errors in algorithms and programs	
	We can use our experiences to solve new problems	
	We can write increasingly complex algorithms for a purpose	

	We can use and adapt nested loops	
	Use sequence, selection, and repetition in programs; work with variables and various forms of input and output	
	*Additional enrichment content, above and beyond the National Curriculum PoS. DETAIL:	

Digital Literacy

INTERNET SAFETY & DIGITAL RESPONSIBILITY	Use technology safely, respectfully and responsibly	
	Recognise acceptable/unacceptable behaviour	
	Use technology safely and respectfully keeping personal information private	
	Identify a range of ways to report concerns about content and contact.	
	Identify possible dangers online and know how we can stay safe	
	Know that information on the internet might not be true or correct and we can check validity	
	Use search technologies effectively, appreciate how results are selected and ranked	
	Be discerning in evaluating digital content (using website names & domain names to help determine usefulness & reliability as well as Boolean searches to refine results).	
	Upload and download files to a cloud server	

Information technology

	Select, use and combine a variety of software (including internet services) on a range of digital devices to design and create a range of programs, systems and content that accomplish given goals, including collecting, analysing, evaluating and presenting data and information.	
Using software	Use search and word-processing skills to create presentations that include animations, hyperlinks, imported and edited images, transitions and effects	
	We can create and edit sound recordings for a specific purpose	

	We can create and edit videos adding multiple elements such as sound, voiceover, text etc	
	We can create a website or a blog with embedded links and multiple pages	
	We can use spreadsheet apps/software effectively to collect, enter, manipulate and sort and filter data and use a range of formula confidently to change the model and create a line graph, bar chart or a pie chart which best suits the data	
Internet / Communication	Enhance our searching skills so we can find relevant information on the internet	
	Use search engines effectively focussing on keywords and search returns	
	Be discerning in evaluating digital content	
Wider use	Know how search engines search, select and rank results and we able to use this to refine searches and be more efficient when using search engines	
	Know that the internet is more than the WWW	