

Federation of St. Cuthbert's and St. Sebastian's Catholic Primary Schools



COMPUTING PROGRESSION MAP

Year 6			
	AUTUMN TERM:	SPRING TERM:	SUMMER TERM:
	Creating a Mobile App [1] Text-Based Programming [2]	Computational Thinking [1] Creating Spreadsheets [2]	How Data Is Stored [1] Programming & Debugging [2]
Domain	Progression Statement		
Computer Science	Problem Solving: Understands the importance of planning, testing and correcting algorithms. Approaches a wider range of problems thinking computationally, helping them to design other algorithms for other specific outcomes. Decomposes various problems into smaller parts to design an algorithm for a specific outcome recognising similarities to solutions used before. Programming: Shows awareness of evaluating the effectiveness and efficiency algorithms, tests programming and debugs. Understand the need for precision when creating algorithms. Evaluates the effectiveness and efficiency of algorithm, tests programming and debugs. Uses variables and operators to achieve a required output. Gives reasoning for each step within algorithms. Develops more complex flow diagrams Evaluates the effectiveness and efficiency of algorithm, continually tests programming and debugs with efficiency and fluency. Applies a deeper understanding when using variables and operators to achieve a required output. Uses different inputs (including sensors) to control a device or onscreen action, predicting what will happen. Logical Thinking: Uses logical reasoning to detect and correct errors in algorithms and programs. Uses logical thinking, imagination and creativity to improve and extend a program. Can describe various home / school networks, what hardware they use, and services they provide.		
Information Technology	 Creating Content: Combines different media, recognising the contribution of each to achieve a particular outcome. Selects, uses and combines the appropriate technology tools to create effects that will have an impact on others. Reviews and improves work, supports others to improve theirs. Selects the most effective tool to collect data for an investigation. Checks the data collected for accuracy and plausibility. Interprets data collected, presents it appropriately. Designs and creates a spreadsheet for a specific purpose, incorporating different features of design and function. Creates documents and presentations for a variety of audiences and purposes, considering the appropriateness of text and formatting choices. 		

	o Presents their documents and presentations to others and consider improvements.		
	Searching:		
	o Uses a range of strategies to increase the accuracy of keyword searches. Makes confident inferences about their effectiveness.		
	Reasons confidently about the way search results are selected and ranked.		
	E-Safety:		
Digital Literacy	Uses technology safely, respectfully and responsibly. Shows awareness of the positive! negative impact of what they post online, knowing it can be seen and used. Is aware of ways that they can protect their own digital devices from harm. Shows awareness of the SMART rules. Has an awareness of their digital footprint, that what they do on the internet stays there. Uses a range of strategies to increase the accuracy of keyword searches. Makes confident inferences about their effectiveness. Acknowledges sources of information appropriately. Understands how computer networks work, including the internet. Regularly explains about secure passwords. Is aware of the various consequences of sharing too much information online. Can explain the consequences of spending too much time online or on a game.		
	Using IT Beyond School:		
	o Considers the meanings and possible impact of emojis and text-talk.		
	o Identifies the features and implications of a phishing email.		
	o Understands the hidden costs of app usage and in-app purchasing.		
	o Recognises privacy settings and the value of implementing them.		
	Has a growing appreciation of the dangers of spending too long online or playing a games.		

Year group long-term overview (with statutory requirements) and subject progression map (above) to be used together to inform medium term planning.