

## St Mary's CE High School Curriculum Map 2022-23

## IT and Computing Year 7

	Autumn 1a	Autumn 1b	Spring 2a	Spring 2b	Summer 3a	Summer 3b
CONTENT	Impact of technology:	Using media: gaining	Modelling data:	Networks: from	Computing	Programming
	collaborating online	support for a cause	spreadsheets	semaphores to the	Components:	essentials in Scratch:
Declarative /	respectfully	Creating a digital	Sorting and filtering data	internet	The function of input	part I
core /	Identifying how to use	product for a real-world	and using formulas and	Recognising networking	and output devices	Applying the
powerful	online collaboration	cause.	functions in spreadsheet	hardware and explaining	Different types of	programming
Knowledge –	tools respectfully. An		software.	how networking	memory and storage	constructs of sequence,
'Know What'	introduction to the			components are used	and their use	selection, and iteration
	computing lab.			for communication.		in Scratch
Skills	Learn the rules of a	Using the appropriate	Be able to identify the	Define what a computer	Be able to identify the	Create a sequence of
	computer room	software to complete a	key features of	network is	different types of input	instructions for a
Procedural	Demonstrate what is	task	spreadsheet software	Define a protocol and	and output devices and	computer to follow
Knowledge –	meant by a secure	Be able to identify and	Use basic formulas with	provide some examples	their uses.	Define what a variable
'Know How'	password	apply the features of a	cell references for	List network hardware	Be able to identify the	is
	Create files effectively	word processor	calculations	Explain how data is	different types of	Explain what selection
	Describe cyberbullying	Evaluate formatting	Use the autofill tool to	transmitted between	storage and its uses.	is and how they can be
	Explain the different	techniques	replicate data	computers across		used within programs
	effects of cyberbullying	Select appropriate	Use formatting	networks		Use different operators
	Learn how to	images for a given	techniques in a	Explain the difference		within your program
	communicate with	context	spreadsheet	between bandwidth and		(>,<,=)
	peers respectively	Demonstrate an	Use the functions SUM,	latency		Define iteration and
	Learn how to stay safe	understanding of	COUNTA, MAZ, and	Define what the internet		how it can be used
	online	licensing issues and be	AVERAGE	is		within programming
		able to credit the	Create appropriate charts	Compare the differences		Define what a
		original source	Use a spreadsheet to sort	to wired and wireless		subroutine is
		Be able to identify	and filter data	connections		Define what
		credible sources and	Use the functions	Explain how data travels		decomposition is
		reference them	COUNTIF and IF	between computers		Explain why lists are
		correctly	Use conditional	across the internet		important within
			formatting	Explain the difference		programming
			Collect & analyse data	between the internet		
				and the World Wide		
				Web		



## St Mary's CE High School Curriculum Map 2022-23

## IT and Computing Year 7

Key Questions	Can you identify the key principles of internet safety? What is cyberbullying? What should you do if you were being cyberbullied? Why is it important to	How do identify the correct software for your task? How can you format a word processor? How can we tell if a source is credible? Why must you	Explain the difference between data and information Explain the difference between primary and secondary sources What are some of the key features of a spreadsheet? Why is the autofill function helpful? How can you format a spreadsheet? How do you create charts	What is a computer network? What is a protocol? What are some of the most important network components? What is the difference between bandwidth and	Can you identify the correct input and output devices to use in a range of different situations? Can you identify the correct types of storage and when they should	What is a sequence? What is a variable? Why are variables important? What do the different operators you have used and what do they do?
	Why is it important to communicate respectively with your peers and teachers on the internet?	Why must you reference where you got an image or information from?	How do you create charts in a spreadsheet? What is the difference between data and information What is the difference between primary and secondary data?	between bandwidth and latency? What is the difference between the internet and the World Wide Web? What are the differences between wired and wireless connections? How does data travel between computers?	and when they should be used?	do? What is iteration and why is it important? What is decomposition?
Assessment	Interim assessment with action points to addresses any gaps End of Module assessment	Interim assessment with action points to addresses any gaps End of Module assessment	Interim assessment with action points to addresses any gaps End of Module assessment	Interim assessment with action points to addresses any gaps End of Module assessment	Interim assessment with action points to addresses any gaps End of Module assessment	Interim assessment with action points to addresses any gaps End of Module assessment