

St Marie's Catholic Primary School

Long Term Plan: Computing

	Topic	National Curriculum	Vocabulary	Knowledge	Skills		
Year 5	Online safety	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. Use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact.	Online safety Smart rules Password Reputable Encryption Identity theft Shared image Plagiarism Citations Reference Bibliography	To review sources of support when using technology and children's responsibility to one another in their online behaviour. To be aware of appropriate and inappropriate text, photographs and videos and the impact of sharing these online. To search the Internet with a consideration for the reliability of the results of sources to check validity and understand the impact of incorrect information. Ensure reliability through using different methods of communication	To gain a greater understanding of the impact that sharing digital content can have. To know how to maintain secure passwords. To understand the advantages, disadvantages, permissions and purposes of altering an image digitally and the reasons for this. To learn about how to reference sources in their work		
	3D Modelling	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. use technology safely, respectfully and responsibly;	CAD Modelling 3D 2D Viewpoint Polygon Net 3D printing Points template	To use a computer to create and manipulate three-dimensional (3D) digital objects To compare working digitally with 2D and 3D graphics To construct a digital 3D model of a physical object To identify that physical objects can be broken down into a collection of 3D shapes To design a digital model by	To understand designing for a purpose. To understand printing and making.		

			annahining 2D - bit-	
	recognise		combining 3D objects	
	acceptable/unacceptable		To develop and improve a	
	behaviour; identify a range		digital 3D model	
	of ways to report concerns			
	about content and contact.			
5.8		Copyright	To add and edit images to a	To know what a word
Word processing		Cursor	word document.	processing tool is for.
		Document	To change the look of text	To know how to use word
		Font	within a document.	wrap with images and text.
		In-built styles	To add features to a	
		Merge cells	document to enhance its	
		Paragraph formatting	look and usability.	
		Readability	To use tables within MS	
		Text	Word to present	
		Text formatting	information.	
		Text wrapping	To use templates and the	
		Word art	pdf format.	
		Word processing tool	To consider page layout	
		Trong processing too.	including heading and	
			columns.	
Coding	Design, write and debug	Action	To represent a program	
count	programs that accomplish	Algorithm	design and algorithm.	
	specific goals, including	Bug	To create a program that	
	controlling or simulating	Output	simulates a physical system	
	physical systems; solve	Command	using decomposition.	
	problems by decomposing	Input	To explore string and text	
	them into smaller parts.	Debug/Debugging	variable types so that the	
	Use sequence, selection and	Repeat	most appropriate can be	
	repetition in programs;	Selection	used in programs.	
	work with variables and	Design Mode	To use the Launch command	
		_	in 2Code Gorilla	
	various forms of input and	Code Design Event		
	output.	If	To program a playable game	
	Use logical reasoning to		with timers and scorepad.	
	explain how some simple	Object		
	algorithms work and to	Control		
	detect and correct errors in	Alert		
	algorithms and programs.	Get Input		
	Select, use and combine a	If/Else		
	variety of software	Simulation		
	(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.		
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Theme Key:														
Coding and Computation thinking	1	Spreadsheets		Internet and Email		Art and Design		Music		Databases and graphing		Writing and Presenting		Communication and networks