

## St Matthew's Catholic Primary School Computing Overview 2023-24



**DL= Digital Literacy CS = Computer Science IT= Information Technology** 

Year Group	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2	
Reception	IT and DL I Am a Super Surfer  Pupils will learn to recognize on and offline technology and how to use it safely with the help of trusted adults.			IT	CS		
			Look Wh	Look What I Can Do		I Am a Computer Scientist	
			Pupils will learn that information can be used and created using technology.		Pupils will learn cause and effect in computing. (I press this button – this is the result)		
Year 1	IT	DL	CS	CS	IT	IT	
	Pupils will learn how to log in and shut down a computer accurately and begin to understand the importance of a password.	programs to process and format text and Images  Pupils will learn how to use a word processing program to write and format text. They will add digital images and consider the	Unplugged Algorithms  Pupils learn what an unplugged algorithm is and create and apply them to an on- screen program.	Programming, coding & Robotics  Pupils explore how to control both physical and virtual robots with a sequence of commands.	Pupils will explore how to transfer physical data from a tally chart into a digital pictogram. They will compare the difference with creating a physical pictogram.	Presenting Information  Pupils will consider a variety of ways to present cross curricular information digitally, and compare the advantages and disadvantages	

		audience for their work.				with paper-based content.
Year 2	IT	CS	CS	DL	IT	IT/DL
	What is a Computer?	Unplugged Algorithms	Programming using Scratch Jr	Storing and Presenting Data	Modifying Text and Images	Presenting Information
	Pupils will learn how to identify a computer's different parts and talk about the role computers play in our society.	Pupils build on their knowledge of what an algorithm is and how we can program computers to use algorithms.	Pupils will use the Scratch Jr app to write their own block code for several different projects. These can easily be made cross curricula.	Pupils to understand what data is, and how we store that data in different ways. Storing data on a computer allows us to quickly sort it and present it as information in graphs and charts.	Pupils will look at software they can use to present their work. They will expand on previous skills such as using a keyboard, formatting text and how to use images in their work.	Pupils will explore and learn how to present information to an audience using technology
Year 3	IT	CS	CS	IT	CS	IT/DL
	Composing Emails	Introduction to Scratch	Prediction and Debugging	Altering Media	Inside a computer	Publishing Online Content
	Pupils will explore the different advanced features of Microsoft Word. They will also use	Pupils will learn how to program sprites using a range of blocks to add animation,	Pupils will learn how to use prediction when coding to test and debug written programs.	Pupils to look at the skills behind taking a good photograph and how these photos	Pupils will identify the different parts of a computer and explore how computers have	Pupils will be introduced to graphic design, marketing, and will develop their publishing skills.

	these skills to compose an email.	sound and other effects		can be edited in various ways.	evolved over the last 100 years.	
Year 4	IT	CS	CS	IT	DL	IT
	Branching Databases	Repetition and Forever Loops	Designing a Game	Making a Special Effects movie	Smarter Searching and Online Safety	Pixel Art
	Pupils learn about the concept of a branching database and create their own using presentation software.	Pupils learn to use repetition and loops when coding.	Pupils use their knowledge of Scratch to create a Formula One style game.	Pupils create their own videos and apply special effects to them.	Pupils to gain awareness of the best ways to use a search engine and to continue to develop awareness of online dangers.	Pupils create a piece of pixel artwork using a grid format.
Year 5	IT	CS	CS	IT	CS	IT
	Create & Search Database  Pupils will use Excel to create and search a database.	Pupils identify different types of variables. what conditionals are and understand how variables are used in computer programming.	Coding Using Micro:Bits  Pupils to program Micro:Bit to make a variety of practical and usable devices.	Stop Motion Animation  Pupils will learn about all aspects of stop frame animation. They will storyboard their own story before using a software package to create their own	The Internet & The World Wide Web  In this unit the children will learn the difference between the WWW and the internet. They will also understand what is meant by IP address.	3D Modelling  Children will learn to design models using online CAD software.

				stop frame animation.		
Year 6	Creating Formula in Excel  Pupils will learn how to organise data and make calculations using the application Microsoft Excel.	Edublocks- Introduction to Python  Pupils will learn how block-based programming compares to written code. Pupils will be introduced to Python as a text-	CS Programming a Game  Using the application Scratch, pupils will create an interactive, playable game using conditionals, variables, and	Creating a Podcasting  Pupils will produce a podcast based on a piece of writing from another curriculum area or aspect of school life.	HTML  Pupils will learn how to design a multi-page informational website, considering the layout, user experience and key features including home page, links	IT and DL Social Media & Being Safe Online  Pupils will learn about the purpose of social media and different aspects of social media and how to use it safely.
		based method of programming.	operators.		and images.	