The Arches Community Primary School

Computing Curriculum Overview – following MGL Scheme

DL = Digital Literacy		CS = Computer Science IT		IT = Information Technology			
FS2	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2	
	IT & DL	IT & DL		IT		CS	
	I am a Super Surfer		Look what I can do		I am a computer scientist		
	Pupils will learn to recognise on		Pupils will learn that		Pupils will learn cause and		
	and offline tech	nology and how	information can be used and		effect in computing. (I press		
	to use it safely	with the help	created using to	echnology.	this button - this is the		
	of trusted adul	of trusted adults.			result).		
Year 1	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2	
	IT	DL	CS	CS	IT	IT	
	Basic	Using text-	Unplugged	Programming,	Digital	Presenting	
	Computing	based	Algorithms	coding	Painting	Information	
	Skills	programs to	_	Robotics	_		
		process and	Pupils learn		Pupils will	Pupils will	
	Pupils will	format text	what an	Pupils explore	explore how	consider a	
	learn how to	and Images	unplugged	how to control	to use the	variety of	
	log in and shut	-	algorithm is	both physical	different	ways to	
	down a	Pupils will	and create	and virtual	tools and	present cross	
	computer	learn how to	and apply	robots with a	features in a	curricular	
	accurately and	use a word	them to an on-	sequence of	computer	information	
	begin to	processing		commands.	based paint	digitally, and	

	understand the importance of a password.	program to write and format text. They will add digital images and consider the audience for their work.	screen program.		program to create a variety of effects.	compare the advantages and disadvantages with paper based content.
Year 2	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
	IT	CS	CS	IT	IT	IT/DL
	What is a Computer? Pupils will learn how to identify a computer's different parts and talk about the role computers play in our society.	Coding & Algorithms Pupils build on their knowledge of what an algorithm is and how we can program computers to use algorithms. They will use a variety of block based	Programming using Scratch Jr Pupils will use the Scratch Jr app to write their own block code for several different projects. These can easily be made	Data collection and representatio n using Pictograms Pupils will explore how to transfer physical data from a tally chart into a digital pictogram. They will compare the	Modifying Text and Images 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	Staying Safe Online Pupils will use the CEOP Jessie & Friends materials to explore using the online world safely, including sharing pictures and online gaming. They will use

		coding programs to create algorithms, solve programs and debug errors.	cross curricular	difference with creating a physical pictogram	to use images in their work.	the skills developed in other units to create digital content about online safety.
Year 3	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
	IT	CS	CS	IT	CS	IT/DL
	Composing Emails Pupils will	Introduction to Scratch Pupils will	Prediction and Debugging Pupils will	Altering Media Pupils to look	Inside a computer Pupils will	Publishing Online Content
	explore the different advanced features of Microsoft Word. They will also use these skills to compose an email.	learn how to program sprites using a range of blocks to add animation, sound and other effects.	learn how to use prediction when coding to test and debug written programs.	at the skills behind taking a good photograph and how these photos can be edited in various ways	identify the different parts of a computer and explore how computers have evolved over the last 100 years.	Pupils will be introduced to graphic design, marketing, and will develop their publishing skills.
Year 4	Autumn 1 IT	Autumn 2 CS	Spring 1 CS	Spring 2 IT	Summer 1 DL	Summer 2 IT

	Branching Databases Pupils learn about the concept of a branching database and create their own using presentation software.	Repetition and Forever Loops Pupils learn to use repetition and loops when coding.	Designing a Game Pupils use their knowledge of Scratch to create a Formula One style game.	Making a Special Effects movie Pupils create their own videos and apply special effects to them	Smarter Searching and Online Safety Pupils to gain awareness of the best ways to use a search engine and to continue to develop awareness of online dangers.	Pixel Art Pupils create a piece of pixel artwork using a grid format
Year 5	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
	IT	CS	CS	IT	CS	IT
	Create &	Using	Coding Using	Stop Motion	The Internet	3D Modelling
	Search A	Variables	Micro:Bits	Animation	& The World	
	Database				Wide Web	Children will
		Pupils identify	Pupils to	Pupils will		learn to
	Pupils will use	different	program	learn about all	In this unit	design models
	Excel to	types of	Micro:Bit to	aspects of	the children	using online
	create and	variables.	make a variety	stop frame	will learn the	CAD software
	search a	what	of practical	animation.	difference	
	database.	conditionals		They will	between the	

		are and understand how variables are used in computer programming	and usable devices	storyboard their own story before using a software package to create their own stop frame animation.	WWW and the internet. They will also understand what is meant by IP address.	
Year 6	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
	IT	CS	CS	IT	IT	IT & DL
	Creating	Edublocks	Programming a	Creating a	HTML	Social Media &
	Formula in	Introduction	Game	Podcast		Being Safe
	Excel	to Python			Pupils will	Online
			Using the	Pupils will	learn how to	
	Pupils will	Pupils will	application	produce a	design a multi-	Pupils will
	learn how to	learn how	Scratch,	podcast based	page	learn about
	organise data	block-based	pupils will	on a piece of	informational	the purpose of
	and make	programming	create an	writing from	website,	social media
	calculations	compares to	interactive,	another	considering	and different
	using the	written code.	playable game	curriculum	the layout,	aspects of
	application	Pupils will be	using	area or aspect	user	social media
	Microsoft	introduced to	conditionals,	of school life.	experience	and how to use
	Excel.	Python as a	variables, and		and key	it safely.
		text-based	operators.		features	
					including home	

	method of	page, links and	
	programming.	images.	