MGL Scheme Overview

DL = Digital Literacy

CS = Computer Science

IT = Information Technology

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer2
	I Am A Super Surfer		Look What I Can Do		I Am A Computer Scientis	st
Foundation Stage	range of technologies both on and offline. This will also		This unit teachers children how a wide range of technologies can be used to capture and create multimedia. It is longer to accommodate the wider opportunities for cross curricular work.		An introduction to early programming through the use of bee bots and other floor turtles.	
Year 1	IT	DL	CS	CS	IT	DL
	Basic Computing Skills	Producing Digital Media	Unplugged Algorithms	Programming Robots	Data Handling: Pictograms	Presenting Information
	Pupils will learn how to log in and shut down a computer accurately and begin to understand the importance of a password. They will develop keyboard and mouse skills.	Pupils will learn how to use a word processing program to write and format text. They will add in digital images and consider the audience for their work.	Pupils will learn what an algorithm is and apply it to both off-computer (unplugged) and on computer tasks.	Pupils will program a physical device such as a Beebot, and compare it with programming on screen versions of the devices. They will build upon their knowledge of algorithms from Unit 1.3.	In the unit, 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.	Pupils will consider a variety of ways to present cross curricular information digitally, and compare the advantages and disadvantages with paper based content.
	Digital Literacy: Why we have passwords.					Digital Literacy: Pupils to discuss how they know if a

						website is right for them or not.
Year 2	IT	CS	CS	DL	IT	DL
	What is a Computer	Unplugged Algorithms	Scratch Jr	Storing and Presenting Data	Modifying Text and Images	Presenting Data
	In this unit pupils will be able to describe different computers and their peripherals. They will also learn about the different roles computer play in society.	In this unit pupils will continue to explore what algorithms are and what strategies they can use to find bugs when their algorithm is not working.	In this unit pupils will use the Scratch Jr app to write their own block code in a number of different projects that can easily be made cross curricula.	In this unit pupils will look at what data is and compare different methods of data storage. Pupils will also learn how to turn data into information by creating different styles of graphs and charts	In this unit pupils will build on previously learnt keyboard skills and learn how to format text in a number of different ways. Pupils will also work with images, editing them to meet a purpose.	In this unit pupils create a presentation of their class topic using the app Shadow Puppet EDU. Pupils will learn how to edit fonts and photos to make an engaging presentation.
	Digital Literacy: Using a computer responsibility in terms of both time and purpose.			Digital Literacy: Identifying what personal information is and whom it should be shared with.		
Year 3	Use of different Software (IT)	Programming Skill (CS)	Programming Project (CS)	Media (IT)	How Things Work (CS)	Design (IT)
	Composing Emails	Programming a Game	Creating a Programmable World	Alerting Digital Media	How Things Work incl Networks	Publishing Online Content
	Pupils will explore the different advanced features of Microsoft Word. They will also use these skills to compose an email.	Pupils will explore sequencing, selection, repetition, inputs and outputs in programs they create.	Pupils will create a programmable world using Kodu.	Pupils will consider that all of the media they see could have been altered.	Pupils will develop an understanding of networks and the hardware required.	Pupils will learn about graphic design, publishing and promoting their own content.
	Digital Literacy objective: Children consider their responsibilities to others online.			Digital Literacy objective: Children consider that all of the media they see could have been altered		

Year 4	Use of different Software (IT)	Programming Skill (CS)	Programming Project (CS)	Media (IT)	How Things Work (CS)	Design (IT)
	Branching Databases	Repetition and Forever Loops	Coding with Scratch	Creating a Video	Networks and Online Services	Spreadsheets
	Pupils learn about the concept of branching database and create their own using presentation software	Pupil learn to use repeat loops in their code.	Pupil create a game using repeat loops.	Pupils create their own videos and apply special effects to them (Information Technology). Learn how photos/videos can be edited online for advertisement (Digital Literacy).	Understand what a network is and the parts of the local network in our school (Computer Science) Pupils understand why a password is important and what a good password looks like (digital Literacy).	Create art using and creating a key in Microsoft Excel
				Digital Literacy: Learn how photos/videos can be edited online for advertisement.	Digital Literacy: Pupils understand why a password is important and what a good password looks like.	
Year 5	Use of different Software	Programming Skill	Duo ava va va in a Duoi e at	Modia	II mi i var i	
	(IT)	(CS)	Programming Project (CS)	Media (IT)	How Things Work (CS)	Design (IT)
	(IT) Create / Search Database		(CS)		_	_
	Create / Search	(CS)	(CS) Creating Music Using	(IT)	(CS) Difference	(IT)

Year 6	Use of different Software (IT)	Programming Skill (CS)	Programming Project (CS)	Media (IT)	How Things Work (CS)	Design (IT)
	Creating Formula in Excel	Using Variables	Program for An Audience	Plan and Compose Music	How Data is Stored	HTML
	Pupils will learn how to organise data and make calculations using the application Microsoft Excel.	Pupils will learn what variables are and how to use them when programming, using the application Scratch 3.0.	In this unit pupils will create an animation using the application Scratch 3.0.	Pupils will learn how to compose music and learn how to record and edit a simple podcast.	In this unit pupils will learn and explore how data is transferred and received.	Pupils will learn how to use HTML coding to program a webpage
				Digital Literacy: Pupils learn about copywriting and using someone else's work responsibly		Digital Literacy: Pupils learn about fake news and how it can be used as click bait.