



Computing planning overview 2021-2022

	Autumn Term		Spring Term		Summer Term	
Year 1	Basic Computing Skills 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 basic typing skills.	Producing Digital Media 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.	Unplugged Algorithms Pupils will learn what an algorithm is and apply it to both off-computer (unplugged) and on computer tasks.	Programming Robots 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 Spring 1.	Data Handling: Pictograms 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	Presenting Information Pupils will consider a variety of ways to present cross curricular information digitally, and compare the advantages and disadvantages with paper-based content.
Year 2	Digital Literacy: Why we have passwords. Basic Computing Skills Pupils will learn to access different platforms using various logins and how to send/receive simple emails – considering responsible use and password integrity.	Unplugged Algorithms 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.	Basic Block Coding In this unit pupils will use the Code Studio site to write their own block code in a number of different projects	Storing and Presenting Data 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	Modifying Text and Images 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.	Digital Literacy: Pupils to discuss how they know if a website is right for them or not. Presenting Data 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.
Year 3	Programming a Game Pupils will explore sequencing, selection, repetition, inputs and outputs in programs they create.	Composing Emails Pupils will explore the different advanced features of Microsoft Word. They will also use these	Creating a Programmable World Pupils will create a programmable world using Kodu and Purple Mash.	Digital Literacy: Identifying what personal information is and whom it should be shared with. Alerting Digital Media Pupils will consider that all of the media they see could have been altered. Digital Literacy	How Things Work including Networks Pupils will develop an understanding of networks and	Publishing Online Content Pupils will learn about graphic design, publishing and promoting their own content.
		skills to compose an email. Digital Literacy objective: Children consider their responsibilities to others online		objective: Children consider that all of the media they see could have been altered	the hardware required.	
Year 4	Repetition and Forever Loops Pupil will explore sequencing, selection, repetition, inputs and outputs in programs they create. They will also learn to use repeat loops in their code.	Coding with Scratch Pupil create a game using repeat loops.	Branching Databases Pupils learn about the concept of branching database and create their own using presentation software	Creating a Video 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: Learn how photos/videos can be edited online for advertisement	Networks and Online Services 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). Digital Literacy: Pupils understand why a password is important and what a good	Spreadsheets Create art using and creating a key in Microsoft Excel





	Variables, If and If Else	Create / Search Database	Creating Music	Stop Motion Animation	Difference WWW/Internet In	3D Modelling
	Statements	In this unit the children will use	Using Code In this unit the	In this unit the children will learn	this unit the children will learn	Children will learn to design
Year 5	Children will be introduced to If	Excel to create and search a	children will use a number of	about all aspects of stop frame	the difference between the	models using online CAD
	and if else statements in Code	database.	sites to create music using code.	animation. They will storyboard	WWW and the internet. They	software.
	Studio.			their own story before using a	will also understand what is	
				software package to create their	meant by IP address.	
	Digital Literacy – certificates and			own stop frame animation.		
	ratings for games and films				Digital Literacy: Pupils learn	
				Digital Literacy: Pupils to create	what an online footprint is and	
				<mark>a short animation about</mark>	the reasons technology holds	
				<mark>relationships online, who can</mark>	onto our information.	
				you trust?		
	Using Variables	Program for An Audience	Creating Formula in Excel Pupils	How Data is Stored	Plan and Compose Music Pupils	HTML
	Pupils will learn what variables	In this unit pupils will create an	will learn how to organise data	In this unit pupils will learn and	will learn how to compose music	Pupils will learn how to use
Year 6	are and how to use them when	animation using the application	and make calculations using the	explore how data is transferred	and learn how to record and edit	HTML coding to program a
	programming, using the website	Scratch 3.0.	application Microsoft Excel.	and received.	a simple podcast.	webpage
	Code Studio					
					Digital Literacy: Pupils learn	Digital Literacy: Pupils learn
	Digital Literacy – Screen time				about copywriting and using	<mark>about fake news and how it can</mark>
	and managing access to				someone else's work responsibly	<mark>be used as click bait</mark>
	technology					

Yellow: Lessons taught by MGL