

Computing Overview 2022-2023

Online Safety is paramount to our computing curriculum.

In the Autumn term, the children learn the SMART rules through Key Stage assemblies.

In the Spring term, school hold a Safer Internet day and follow the content from the Kapow scheme of learning.

At the start of each lesson which involves online activity, the children are reminded of the safe use and what to do if issues arise.

Year group	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
1		Programming –	Creating media-	Programming –	Creating media-	Intro to data-
		RODOCODO	Digital imagery	RODOCODO	Stop Motion	Statistics
		- Use the walk		 Know programs 		
		command		contain bugs		
		- Include the		 Understand what 		- Learn how
		rotate	- Plan a mini	a loop is and how	- Use greater	charts and
		command	adventure story	they are used	control when	graphs can be
		- Add the 'Pick	- Take photos	 Understand what 	taking photos	created using a
		up' command	holding the device	a function is and	(light and	computer
			steady	how they are	angle)	- Know a
			- Edit, crop and	used	- Know	branching
2		- Write a program	filter photos	 Develop pattern 	animation is a	database is a
		to include walk,		recognition skills	sequence of	way of
		rotate and pick			photos	classifying
		up commands				

	 Begin to use debugging skills Begin to use loops toimprove 		 Use pattern recognition to use loops Develop 	 Learn small changes in frames create a smoother 	 Know computers understand different types
	programs		debugging skills	animation	of input
3/4	 Programming RODOCODO Year 3 Continue to use pattern recognition to use loops effectively Use pattern recognition to use functions Understand there are systematic ways of finding and fixing bugs Year 4 Describe 3 step process used when debugging Learn what nested loops are and how to use them Learn what if statements are 	 Programming Scratch Know Scratch is a programming language Understand how decomposition is used Know you can remix and adapt code 	 Creating Media Video Trailers Know different types of camera shots affect the photo/video Learn how to edit using editing software Understand how to add transitions and text 	 Creating Media- Website design Know a website is a collection of connected pages Understand homepage, subpage and hyperlinks Work collaboratively to create content for a webpage 	 Programming – Computational thinking Learn that problems can be solved through computational thinking Understand 'pattern recognition' and 'abstraction' Create algorithms for a specific purpose

		and how to use them				
5/6	Programming Music	Programming RODOCODO Year 5	Computing systems and networks Search Engines	Data Handling Big Data 1	Data Handling Big Data 2	Creating Media Stop motion
	(see music planning)	 Continue to develop understanding of functions and loops Learn the difference between repeat until loops and counting loops Learn what variables are and how to use them. Year 6 Learn what if esle statements are and how to use them Continue to learn what variables are and how to use them 	 Know how search engines work Learn that not everything online is true and how to check validity Understand 'copyright.' 	 Know data contained in barcodes and QR codes can be used by a computer Understand how data is transmitted Learn that data is often encrypted. 	 Know data can be corrupted Learn that devices that are not updated are most vulnerable Understand the difference between mobile data and WiFi 	 Know decomposition of an idea is important when creating stop motion Understand stop motion is an animation filmed one frame at a time Learn that editing is an important feature

- Continue to		
learn what		
repeat until		
loops are and		
how to use		
them.		