

Y3 computing overview 2023-24: Connecting Computers, Stop Frame Animation, Sequencing Sounds.

Computing	Building Skills and Disciplinary Knowledge	Approaches to Developing Skills	Building Substantive	Approaches to Developing	Curricula Materials	Assessed through (T1 T2 T3)		
Activity						Exploring Responding Designing		
		and Disciplinary	Knowledge and	Substantive		Crea	Creating Evaluating	
		Knowledge	Understanding	Knowledge and				
Algorithms	• Use sequence in programs	• Class/group	Understand	UnderstandingClass teacher	TERM1:	Most children will be	Some children will	Some children are
and	 Use sequence in programs Use selection in programs	 Class/group tuition with 		showing children	Connecting Computers	able to (working at)	not yet be able	confidently able
Programs	Work with various forms of input and output	technical guidance	inputs, outputs and processes	existing examples	Use paint programs to compare digital and		to(working	to (exceeding)
i i ograms	Work with various forms of input and output Use repetition in programs	from the Switched	Understand	Group work on creating and	non-digital processes		towards)	
	Work with variables	On computing	devices that		 Understand how networks are connected and 			
	Use logical reasoning to explain how some simple algorithms work	program	make up	developing their	build a 'digital' network through role-play			
	Use sequence, selection, and repetition in programs	1 0	network	own work	Create a map of your school network			
Databases	Create and edit content on digital applications	Class/group	infrastructure					
	Use internet services to create content that presents information	tuition with	Understanding					
	Use internet services to create and evaluate content that presents	reference to	how to create					
	information	existing databases	stop-frame					
	Design and create content		animation, edi					
Using the	Use search technologies effectively	Class/group	and narrate/overdu b videos	Class teacher talk	TERM2:			
internet	Be discerning in evaluating digital content	internet browsing,		through	Stop Frame Animation			
	Be discerning in evaluating digital content	followed by	Understand	programs and	 Create story boards for a frame-by-frame 			
		reflective	how create a	algorithms with	animation			
		discussion	program,	opportunities to	 Use iMotion to create a simple stop-motion 			
Problem	Solve problems by decomposing them into smaller parts	• Class, then group	featuring	try different	animation			
solving	Design programs that accomplish specific goals	opportunities for	sequences	programsObserving algorithms and debugging them	Gain skills in making small changes for stop-			
	Write programs that accomplish specific goals	problem solving			motion with crisp imaging			
	Debug programs that accomplish specific goals				Edit video, including adding			
	Use logical reasoning to detect and correct errors in algorithms and			debugging them	sounds/narration, media and text and editing			
	programs				clips by setting in/out pointsUnderstand and evaluate the qualities of			
					effective video, such as the importance of			
					narrative, consistency and special effects.			
Communicat	Understand the opportunities networks offer for communication and	Observational	=	Teacher led	TERM3:			
ing	collaboration	opportunities to		creating and	Sequencing Sounds			
	• Use a variety of software (including internet services) to present information	work as part of a		editing	Use Scratch to create a program			
		group	_	Observing pre- existing master pieces and masters in the	 Plan, design, code and run a project 			
SMSC	• Use technology safely, respectfully and responsibly; recognise acceptable/	 Teacher guidance 			 Code a sprite to create a set of chords Plan and code an algorithm in scratch to create your own musical instrument, 			
	unacceptable behaviour	on safe internet						
	• To know how to seek help – where to go, and how to set privacy settings	use and						
	Recognise acceptable/ unacceptable behaviour	introduction to		field	programming a performance.			
	 Knowing how to find out about website or game policies 	supportive						
2022		websites (NSPCC)						

2023