



Y1 computing overview 2023-24: [Technology around Us](#), [Digital Painting](#), [Programming Animations](#)

Computing Activity	Building Skills and Disciplinary Knowledge	Approaches to Developing Skills and Disciplinary Knowledge	Building Substantive Knowledge and Understanding	Approaches to Developing Substantive Knowledge and Understanding	Curricula Materials	Assessed through (T1 T2 T3)		
						Exploring Creating	Responding Evaluating	Designing Evaluating
Algorithms and Programs	<ul style="list-style-type: none"> Use sequence in programs Work with various forms of input and output Use logical reasoning to predict behaviour of simple programs Use sequence in programs 	<ul style="list-style-type: none"> Class/group tuition with technical guidance from the Switched On computing program 	<ul style="list-style-type: none"> Understand technology and how it can help them in their everyday lives Develop understanding of the different components of a computer by developing their keyboard and mouse skills. 	<ul style="list-style-type: none"> Class teacher showing children existing examples Group work on creating and developing their own work 	TERM1: Technology around Us <ul style="list-style-type: none"> Through investigation, understand the different functions of a device Locate different forms of technology and explain how they help us Create and save files Identify computing rules and understand how they keep us safe 	Most children will be able to... (working at)	Some children will not yet be able to...(working towards)	Some children are confidently able to... (exceeding)
Databases	<ul style="list-style-type: none"> Use internet services to create content that presents information Use internet services to create and evaluate content that presents information Design, create, organise, store, manipulate and retrieve digital content 	<ul style="list-style-type: none"> Class/group tuition with reference to existing databases 	<ul style="list-style-type: none"> Develop understanding of how to use technology responsibly. Pupils develop their understanding of a range of tools used for digital painting and use their own digital paintings. 	<ul style="list-style-type: none"> Class teacher talk through programs and algorithms with opportunities to try different programs Observing algorithms and debugging them 				
Using the internet	<ul style="list-style-type: none"> Use search technologies effectively Be discerning in evaluating digital content recognise common uses of information technology beyond 	<ul style="list-style-type: none"> Class/group internet browsing, followed by reflective discussion 	<ul style="list-style-type: none"> Teacher led creating and editing Observing pre-existing master pieces and masters in the field 	TERM3: Programming Animations <ul style="list-style-type: none"> Using Scratch Jr, choose commands to give a purpose and use them to move a sprite Join commands together to run a series of algorithms Develop and record sequences of instructions as an algorithm to create their own program 				
Problem solving	<ul style="list-style-type: none"> Solve problems by decomposing them into smaller parts Design programs that accomplish specific goals Write programs that accomplish specific goals Debug programs that accomplish specific goals Use logical reasoning to detect and correct errors in algorithms and programs 	<ul style="list-style-type: none"> Class, then group opportunities for problem solving 	<ul style="list-style-type: none"> Observational opportunities to work as part of a group 		<ul style="list-style-type: none"> Teacher guidance on safe internet use and introduction to supportive websites (NSPCC) 			
Communicating	<ul style="list-style-type: none"> Understand the opportunities networks offer for communication and collaboration Use a variety of software (including internet services) to present information 	<ul style="list-style-type: none"> Observational opportunities to work as part of a group 						
SMSC	<ul style="list-style-type: none"> Use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour To know how to seek help – where to go, and how to set privacy settings Recognise acceptable/unacceptable behaviour Knowing how to find out about website or game policies 	<ul style="list-style-type: none"> Teacher guidance on safe internet use and introduction to supportive websites (NSPCC) 						