

Key Stage 2 Computing - The Aims of Our Curriculum

1. Enable children to retain and apply this essential knowledge. 2. Inspire children to become life-long learners. 3. Create a culture of high aspiration through challenging content and therefore pride in achievement. 4. Promote the spiritual, moral, social and cultural development of children, including fundamental British values of democracy, the rule of law, individual liberty, mutual respect and tolerance for those with different faiths and beliefs and for those without faith. 5. Provide opportunities for developing self-confidence, self-awareness, independence, creativity, respect and resilience in children. 6. Promote knowledge and understanding of how children can keep themselves safe and healthy. 7. Develop children's numeracy, literacy and oracy, including the sustained expansion of their vocabulary. 8. Promote reading as a life skill and enable our children to become life-long readers.

Year 5	Areas	Term 1	Term 2	Term 3
	Content	Y5 – Introduction to	Using Excel	Introducing Ohbot
		network/frog/office	KPI 6 Use a variety of software on a	
		365	range of devices to accomplish goals	KPI 1 Design and Write programs KPI 2 Understand what
		KPI 6 Use a variety of software on a	Formulas	variables are KPI 4 Begin to use
		range of devices to accomplish goals	Charts	logical reasoning to
			Goal seek	debug programs
		 Logging in and password security 	Modelling	
		 Network drives 		 Using the ohbot software –
		 Saving work – naming 	NXT	motors, values, toplip bottomlip
		conventions and folder	KPI 1 Design and write programs	variables etc
		structure	KPI 2 understand what variables	• Sequence – how the order of
		 Logging in to frog and navigating 	are	blocks affect the order in which
		the platform	KPI 3 Work with various forms of input	the commands are executed
		Dashboards	and output	 Selection – if,then,else
		Frogplay	KPI 4 Begin to use logical reasoning to	 Loops – repetition and iteration
		 Assignments 	debug programs	Variables
		 Logging in to office 	KPI 6 Use a variety of software on a	Boolean operators
		• Online	range of devices to accomplish goals	Broadcasts
		applications		 Operators (=)
		Sharing documents	 Using the NXT blocks to build 	User input using the ask and wait
			programs – move, sound,display etc	block
		e-safety animation	 Sequencing – The importance of 	
		KPI 6 Use a variety of software on a		Further Ohbot -
		range of devices to accomplish goals	so the program runs how we want it	Sensors



	to. • Variables - speed, rotations, time etc • Loops to make programs more efficient - drive in a square • Operators > and < • Sensors - light sensor, ultrasonic sensor. Follow a line - inputs and outputs Selection - switches	 KPI 1 Design and write programs that accomplish specific goals KPI 2 Work with variables KPI 3 Work with an increasing range of inputs and outputs KPI 4 Develop use of logical reasoning to debug algorithms and programs KPI 6 Use and combine a variety of software on a range of devices to accomplish goals If, then, else Loops repetition, Operators <,>,= Variables Set x to Y
--	---	--



Assessment	Final video project	Practical tasks, final program project	Individual tasks. Final program projec
Literacy link	Writing scripts for animation	Vocabulary – sequence, selection, variable	
	Exporting final project as mp4		
	 Editing in movie plus – text screens, music, scrolling text etc 		
	Importing media into movie plus		
	Recording sound as an audio track		
	 Add a drawing layer to create a mouth 		
	The importance of small movements		
	 How to create an animation by taking a series of still images 		
	Use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact. • Researching safety – finding key information		



_				_ / (04.01.1)
	Cross	Art/Literacy	Maths, Science	Maths. Science.
	curricular links			
	IIIIKS			

Year	6 Areas	Term 1	Term 2	Term 3



			Academy
Content	PowerPoint skills and online safety	Researching on the internet – reliability of information Green screen	Scratch – Virtual Pet
	These are males of ered design that		
	• There are rules of good design that	documentary	KPI 1 Design and write programs
	apply in all contexts. These are		that accomplish specific goals
	consistent use of layout, fonts,	KPI 5 – Use search engines	KPI 2 Work with variables
	colours etc.	effectively and be discerning in	KPI 3 Work with an increasing
	 Images should be used for a specific 		range of inputs and outputs
	purpose.	KPI 6 – Use and combine a variety of	KPI 4 Develop use of logical
	• Fake news is news or stories on the	software on a range of devices to	reasoning to debug algorithms and
	internet deliberately spread via	accomplish goals	programs
	news media or social media.		
	 Clickbait is a sensationalized 	 That information on the internet is 	Show and hide
	headline or piece of text on the	not always true	When clicked
	Internet designed to entice people	 That we need to check the validity of 	• If, then, else
	to follow a link to an article on	information	• Take user input
	another web page. Clickbait is	 That there are a number of ways we 	• Operators >, <, =
	primarily used to drive page views	can check the information online	Variables
	on websites,	How to use the icanpresent software	Costumes
	 Images should be used for a specific 	How to use the movieplus software	If backgroundname = X etc
	purpose on a presentation.		C C
	Hyperlinks are active areas on a		
	page that when clicked take us to a		Inputs and Outputs – Sensors
	different page, document or place in		KPI 3 – Work with an increasing
	the document		range of inputs and outputs
			Sensors become useful when we
	Networks including the internet		use the data they provide in a
	KPI 7 - understand computer		program.
	networks including the internet; how		 Different types of sensors can be
	they can provide multiple services,		used for different purposes.
	such as the world wide web; and the		 Sensors can be used to make on
	opportunities they offer for		screen objects respond to events
	communication and collaboration		in the real world.
	Web searches		
	Search Engines		
	 Forms of communication 		
	Communicating responsibly		
	When to share		



Literacy link	Questions	Writing scripts. Speaking and Listening. Oracy.	
Assessment	PowerPoint projects, online assessment	Final video project Online Assessment	Virtual pet project online assessment
Cross curricular links	PHSE	Geography	Maths.