

Lickey Hills Primary School and Nursery Curriculum Overview - Computing

YEAR 1	AUTUMN		SPRING		SUMMER	
	Computing systems and networks -	Programming - Moving a robot	Creating media - Digital painting	Programming - Introduction to	Data and information -	Creating media - Digital writing
	Technology around	Children will know	Children will know	animation	Grouping data	Children will know
	us	how to write short	how to choose	Children will know	Children will know	how to use a
	Children will know	algorithms and	appropriate tools in a	how to design and	how to explore	computer to create
	how to recognise	programs for floor	program to create	program the	object labels, then	and format text,
	technology in school	robots, and predict	art, and make	movement of a	using them to sort	before comparing it
	and use it	program outcomes.	comparisons with	character on screen	and group objects by	to writing non-
	responsibly.		working non-digitally.	to tell stories.	properties.	digitally.
YEAR 2	Computing systems and networks - IT	Creating media - Digital photography	Programming - Robot algorithms	Data and information -	Creating media - Making music	Programming - Programming quizzes
	around us	Children will know	Children will know	Pictograms	Children will know	Children will know
	Children will know	how to capture and	how to create and	Children will know	how to use a	how to design
	how to identify	change digital	debug programs, and	how to collect data	computer as a tool to	algorithms and
	Information	photographs for	use logical reasoning	in tally charts and	explore	programs that use
	Technology and how	different purposes.	to make predictions.	use attributes to	rhythms and	events to trigger
	its responsible use			organise and present	, melodies, before	sequences of code to
	improves our world in			data on a computer.	creating a musical	, make an interactive
	school and beyond.				composition.	quiz.
YEAR 3	Computing systems	Creating media -	Programming -	Data and	Creating media -	Programming -
	and networks -	Stop-frame	Sequencing sounds	information -	Desktop publishing	Events and actions
	Connecting	animation	Children will know	Branching databases	Children will know	in programs
	computers	Children will know	how to create	Children will know	how to create	Children will know
	Children will know	how to capture and	sequences in a block-	how to build and use	documents by	how to write
	how to identify that	edit	based programming	branching databases	modifying text,	algorithms and
	digital devices have	digital still images to	language to make	to group objects	images, and page	programs that use a
	inputs, processes,	produce a stop-frame	music.	using yes/no	layouts for a	range of events to
	and outputs, and how	animation that tells a		questions.	specified purpose.	trigger sequences of
	devices can be	story.				actions.
	connected to make					
	networks.			N · · · · ·		
YEAR 4	Computing systems and networks - The	Creating media - Audio editing	Programming - Repetition in shapes	Data and information - Data	Creating media - Photo editing	Programming - Repetition in games
	internet	Children will know	Children will know	logging	Children will know	Children will know
	Children will know	how to capture and	how to use a text-	Children will know	how to manipulate	how to use a block-
	how to recognise the	edit audio to produce	based programming	how to recognise	digital images, and	based programming
	internet as a network	a podcast, ensuring	language to explore	how and why data is	reflect on the impact	language to explore
	of networks including	that copyright is	count-controlled	collected over time.	of changes and	count-controlled and
	the WWW, and why	considered.	loops when	before using data	whether the required	infinite loops when
	we should evaluate		drawing shapes.	loggers to carry out	purpose is fulfilled.	creating a game.
	online content.		5 1	an investigation.		
YEAR 5	Computing systems	Creating media -	Programming -	Data and	Creating media -	Programming -
	and networks -	Video editing	Selection in physical	information - Flat-	Vector drawing	Selection in quizzes
	Sharing information	Children will know	computing	file databases	Children will know	Children will know
	Children will know	how to plan, capture	Children will know	Children will know	how to create images	how to explore
	how to identify and	and edit video to	how to explore	how to use a	in a drawing program	selection in
	explore how	produce a short film.	conditions and	database to order	by using layers and	programming to
	information is shared		selection using a	data and create	groups of objects.	design and code an
	between digital		programmable	charts to answer		interactive quiz.
	systems.		microcontroller.	questions.		
YEAR 6	Computing systems	Creating media -	Programming -	Data and	Creating media - 3D	Programming -
	and networks -	Webpage creation	Variables in games	information -	modelling	Sensing
	Internet	Children will know	Children will know	Introduction to	Children will know	Children will know
	communication	how to design and	how to explore	spreadsheets	how to plan, develope,	how to design and
	ALCO 11 1 1 1 1 1 1 1 1 1	create webpages,	variables when	Children will know	and evaluate 3D	code a project that captures inputs from
	Children will know		destanting of the P			contuned inpute them
	how to recognise how	giving consideration	designing and coding	how to answer	computer models of	
	how to recognise how the WWW can be	giving consideration to copyright,	designing and coding a game.	questions by using	physical objects.	a physical device.
	how to recognise how the WWW can be used to communicate	giving consideration to copyright, aesthetics, and	5 5 5	questions by using spreadsheets to		
	how to recognise how the WWW can be	giving consideration to copyright,	5 5 5	questions by using		