

Cycle A							
Year Group	Autumn		Spring		Summer		
EY	The September 2020 release of <u>Development Matters</u> outlines how effective teaching and learning gives children the opportunity to play and explore, participate in active learning and create and think critically. Therefore computing can be linked to each area of the EYFS framework and opportunities to use technology are linked to class topics and available in their environment.						
	 To promote readiness for KS1, children will develop an: Awareness of different technologies in and out of school Awareness of the cause and effect of technology Awareness of digital storage of information- photography, digital writing and research information Awareness of input and outputs of devices Children will learn to use technology to express creatively and constructively. 						
1/2	Technology around us (Y1) Recognising technology in school and using it responsibly. Information technology around us (Y2) Identifying IT and how its responsible use improves our world in school and beyond.	Digital painting Choosing appropriate tools in a program to create art, and making comparisons with working non-digitally.	Moving a robot Writing short algorithms and programs for floor robots, and predicting program outcomes	Grouping data Exploring object labels, then using them to sort and group objects by properties	Digital writing Using a computer to create and format text, before comparing to writing non-digitally.	Programming animations Designing and programming the movement of a character on screen to tell stories.	



3/4	Connecting computers (Y3) Identifying that digital devices have inputs, processes, and outputs, and how devices can be connected to make networks. The internet Recognising (Y4) the internet as a network of networks including the WWW, and why we should evaluate online content	Stop-frame animation Capturing and editing digital still images to produce a stop-frame animation that tells a story	Sequencing sounds Creating sequences in a block-based programming language to make music.	Branching databases Building and using branching databases to group objects using yes/no questions.	Desktop publishing Creating documents by modifying text, images, and page layouts for a specified purpose.	Events and actions in programs Writing algorithms and programs that use a range of events to trigger sequences of actions.
5/6	Sharing information Identifying and exploring how information is shared between digital systems.	Video editing Planning, capturing, and editing video to produce a short film.	Selection in physical computing Exploring conditions and selection using a programmable microcontroller. Note: This unit requires a Crumble controller	Flat-file databases Using a database to order data and create charts to answer questions.	Vector drawing Creating images in a drawing program by using layers and groups of objects	Sensing Designing and coding a project that captures inputs from a physical device Note: This unit uses a micro:bit



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1/2	Technology around us (Y1) Recognising technology in school and using it responsibly. Information technology around us (Y2) Identifying IT and how its responsible use improves our world in school and beyond.	Digital photography Capturing and changing digital photographs for different purposes.	Robot algorithms Creating and debugging programs, and using logical reasoning to make predictions.	Pictograms Collecting data in tally charts and using attributes to organise and present data on a computer.	Making music Using a computer as a tool to explore rhythms and melodies, before creating a musical composition	Programming quizzes Designing algorithms and programs that use events to trigger sequences of code to make an interactive quiz	
3 / 4	Connecting computers (Y3)	Audio editing	Repetition in shapes	Data logging	Photo editing Manipulating digital	Repetition in games Using a block-based	



	Identifying that digital	Capturing and editing	Using a text-based	Recognising how and why	images, and	programming
	devices have inputs,	audio to produce a	programming language to	data is collected over time,	reflecting on the	language to explore
	processes, and	podcast, ensuring that	explore count-controlled	before using data loggers	impact of changes	count-controlled and
	outputs, and how	copyright is	loops when drawing	to carry out an	and whether the	infinite loops when
	devices can be	considered.	shapes.	investigation.	required purpose is	creating a game.
	connected to make				fulfilled.	
	networks.					
	The internet					
	Recognising (Y4)					
	the internet as					
	a network of					
	networks					
	including the					
	WWW, and					
	why we should					
	evaluate					
	online content					
5/6	Internet	Webpage creation	Variables in games	Introduction to	3D modelling	Selection in quizzes
	communication	Designing and creating	Exploring variables when	spreadsheets Answering	Planning,	Exploring selection
	Recognising how the	webpages, giving	designing and coding a	questions by using	developing, and	in programming to
	WWW can be used to	consideration to	game.	spreadsheets to organise	evaluating 3D	design and code an
	communicate and be	copyright, aesthetics,		and calculate data.	computer models of	interactive quiz.
	searched to find	and navigation			physical objects.	
	information.					