	Topic	Skills progression	Computer science Sequence, selection, repetition How they work	Information Technology How they can be used	Digital literacy How computers can be used safely and effectively. Project evolve?	Vocabu
EYFS						
KS1 curriculum			Co2/1.1 understand what algorithms are; how they are implemented as programs on digital devices; and that programs execute by following precise and unambiguous instructions  Co2/1.2 create and debug simple programs  Co2/1.3 use logical reasoning to predict the behaviour of simple programs	Co2/1.4 use technology purposefully to create, organise, store, manipulate and retrieve digital content Co2/1.5 recognise common uses of information technology beyond school	Co2/1.6 use technology safely and respectfully, keeping personal information private; identify where to go for help and support when they have concerns about material on the internet or other online technologies	
Year 1	Paws Claws and Whiskers (1)	<ul> <li>To know how to switch a range of digital devices on and off correctly.</li> <li>Load programs (office, apps) with support/open and close apps.</li> </ul>		Inserting images into a presentation.		Algorithm sequence debug,
	Moon Zoom (4)	Use a mouse to navigate an age-appropriate website/know how to navigate programmes.      Use a mouse to select/ drag/ position an object. Left/ right/ double click and scroll. <a href="http://www.mouseprogram.com/practice.html">http://www.mouseprogram.com/practice.html</a> <a href="https://www.bbc.co.uk/cbbc/games/little-roy-wonder-doodler">https://www.bbc.co.uk/cbbc/games/little-roy-wonder-doodler</a>	Programme simple instructions on floor bee bot.	Use JIT5 to draw aliens.  Make a presentation with pictures and text.	Write and send an email.	

	Dinosaur Planet (3)	•Talk about what they are doing with Computers/ Digital Media using appropriate vocabulary according to equipment available e.g screen/keyboard/laptop/computer/mouse/headphones	Programme simple instructions on floor bee bot to go to a specific location.	Make a presentation with pictures and text.  Make a stop		
	Childhood (1)			motion animation. Drag and drop pictures.		
	Splendid Skies  Bright Lights Big City (3)		Programme simple instructions on floor bot and go to a specific place. Write instructions first then debug where necessary.	To investigate a website.  To use a google earth to explore different landmarks.		
Year 2	Muck Mess and Mixtures (3)	To be able to save/ edit and open versions of their work.  •To develop awareness of keyboard layout and use of a mouse e.g. use the mouse or arrow keys to insert words and sentences • To know backspace/undo/  • shift for capital letters/enter/upload • Changing font/ size/colour and style of text.  • Logging on/off digital devices use navigation skills to access appropriate parts of a website/ simple program/ app		Stop motion animation with sound effects or narration.  Presentation with pictures and sentence/ short paragraph to describe.	Write an email with pictures attached.	
	Street Detectives (2)		Write an algorithm to direct a partner then use the same algorithm to direct the bee bot.  (Unplugged and plugged)	Download and save photos in a folder. Create a photo story.		
	Wriggle and Crawl (8)		Programming a partner to collect an item. Write full set of instructions before giving. (Unplugged)	Watch live webcam? Is this a knowledge or		

	Magnificent Monarchs (1) Coastline Scented		Programme bee bot to go on a specific route. (Plugged)  Fill in missing elements of an algorithm. (Unplugged)  Write an algorithm using language and abbreviations such as repeat. (Unplugged)	skill for computing? Stop motion animation for how ants move. Create presentation with pictures and links to videos. Explore website.		
	Garden (1)			with pictures.		
KS2	, ,	Skills	Computing science	Information	Digital literacy	
Curriculum		Progression	Computing science	technology	Digital literacy	
			Co2/1.1 design, write and debug programs that accomplish specific goals, including controlling or simulating physical systems; solve problems by decomposing them into smaller parts  Co2/1.2 use sequence, selection, and repetition in programs; work with variables and various forms of input and output  Co2/1.3 use logical reasoning to explain how some simple algorithms work and to detect and correct errors in algorithms and programs	Co2/1.4 understand computer networks including the internet; how they can provide multiple services, such as the world-wide web; and the opportunities they offer for communication and collaboration Co2/1.5 use search technologies effectively,	Co2/1.7 use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact	

Vear 3	Through	• typing skills (use two hands when typing) Use BBC		appreciate how results are selected and ranked, and be discerning in evaluating digital content Co2/1.6 select, use and combine a variety of software (including internet services) on a range of digital devices to design and create a range of programs, systems and content that accomplish given goals, including collecting, analysing, evaluating and presenting data and information.	
Year 3	Through the Ages	typing skills (use two hands when typing) Use BBC     Dance Mat typing to supplement word processing skills.			
	Urban Pioneers (4)	<ul> <li>To upload from digital devices and the Internet to a shared space.</li> <li>To insert/cut/ copy/paste</li> </ul>	Programme a traffic light sequence. Egg box controller, link to buy one below. <a href="http://www.clc-control.lancsngfl.ac.uk/index.php?category_id=8">http://www.clc-control.lancsngfl.ac.uk/index.php?category_id=8</a> (Plugged)	Use mapping tools to locate different	

	Use ctrl+c and ctrl+v to copy and paste		arran of the	
	Use ctri+c and ctri+v to copy and paste     To use 'save as' to create another version of their work	Programme a sensor activated barrier with light and warning sound. (Plugged)	areas of the country.  Use the internet to research.	
Mighty metals(0)				
Predator (6)		Programme a floor bot to avoid a route. Test and debug their programmes. (Plugged)  Programming through obstacles. (Unplugged)	Create a flow diagram using shapes tool adding arrows.  Use the internet to research and produce a poster.	
			Draw using a simple graphics package edit using cut tool.  Presentation with videos, pictures and speech bubbles.	

	Rocks Relics and Rumbles (1) Emperors		Create a database. J2data.	
	and Empires			
Year 4	Playlist (1)		Presentation images, text, animation, add music effects.	
	Misty Mountain Winding River			
	Gods and Mortals (1)		Presentation to reflect on learning.	
	Burps Bottoms and Bile (3)	Algorithm to show process of digestion. (Flow chart) (Unplugged)	Editing images using drawing software.  Make a video	
			use simple editing software.	
	Traders and Raiders (1)		Presentation using downloaded images.	

traisitions, narration, sound effects and music as appropriate.  Create a presentation on one marine animal following real life data.	Year 5	Blue Abyss (3)	Programming submarine 'move' 'turn' 'repeat' 'go to' adding visual backgrounds.	sound effects and music as appropriate.  Create a presentation on one marine animal following	
Stargazers (1)  Programme floor bot to avoid obstacles.		Stargazers	Programme floor bot to avoid obstacles.		

	(Instead could they use programmable leg to			
	create their own lunar robot to programme?)			
1066 (3)		Internet	Checking trusted websites.	
		research.		
		Using online		
		maps.		
		Download		
		images,		
		make a		
		digital map		
		showing		
		locations.		
Tudors (2)		Record data		
		in bar graph		
		or pie chart.		
		Presentation,		
		text, images		
_		and music.		
Sow Grow				
Farm				
Dominican	Debugging a programme.	Take photos		
Republic		and edit		
		them.		
		Create		
		music.		
		(Audacity)		
		Take a photo		
		and edit the		
		photo.		
		μποιο.		

Year 6	A child's War (2)		Internet research and create a timeline.  Presentationanimations, transitions, sounds and images.		
	Tomorrow's world (10)	Writing an algorithm as a flow diagram for a robot. (Unplugged)  Use a sorting algorithm.  Write a basic algorithm for a partner. (Unplugged) (This seems way to easy for a year 6 child this needs to be more complex.)	Learn how computer networks work.  Internet research bookmarking websites.  Create a mock homepage.  To use text speak and emoticons.	Meet a blogger to find out how to safely use the internet as a platform.  Learn safe searching and making sure websites are trustworthy.  Copyright music.	
	Frozen Kingdom (4)		Downloading images creating a digital scrapbook.		

		Presentation-	
		images,	
		sound effects	
		and	
		transitions.	
		Create a	
		video.	
		Presentation	
		using images	
		from digital	
5		scrap book.	
Darwin's		Internet	
Delights (3)		research.	
		Edit images	
		Edit images using	
		morphing	
		software.	
		Software.	
		Research and	
		present	
Bloodheart	Create a flow diagram for circulation. (Same as	process	
(1)	year 4)		
,	,		
Hola		Research and	
Mexico (3)		use copy and	
		paste.	
		Explore	
		Mexico using	
		the internet.	

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		Presentation	
		using images,	
		maps, text,	
		sound files.	
		Using	
		translation	
		software	
		online.	