

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
E-Safety themes for all year groups	Health, Well-being and Lifestyle	Online Relationships	Online Bullying	Self-Image and Identity	Managing Online Information	Privacy and Security
Project Evolve						
Nursery	Children will know how to use a camera to take photos.	Children will know how to use the Interactive white board.	Children will know how to select an app on an iPad.	Children will know how to make digital art on the iPad/IWB.	Children will know how to play interactive games on the iPad/IWB.	Children will learn how to operate wind-up toys and pulleys.
Reception	Children will know how to use an iPad to take photos.	Children will know how to use keys on a keyboard to type their name.	Children will know how to use a trackpad to move a cursor.	Children will know how to use the laptop to make digital art using the programme 'paint'.	Children will know how to programme a beebot.	Children will know how to ask google a question using dictation.
Year 1	Digital Literacy	IT	Computer Science	Computer Science	IT	IT
	Computers Technology around us – Computer components, keyboard and mouse skills. Suggested software or hardware: Paintz.app	Using Computer Digital painting – Choosing appropriate tools in a program to create art. Suggested software or hardware: • 2Paint • 2Paint A Picture	Coding Moving a robot – Writing short algorithms and programs for floor robots, and predicting program outcomes. Suggested software or hardware: Bee-bots Barefoot	Coding Programming animations – Design & program the movement of characters combining start and input events. Suggested software or hardware: Discovery Education 2Code	Using Computer Digital writing – Create and format text Suggested software or hardware: Microsoft Word 2 Publish	Using Computer Grouping data – Exploring object labels to sort and group objects by properties Suggested software or hardware: • 2Investigate
	Digital Literacy	IT	Computer Science	Computer Science	IT	IT

Year 2	Computers IT around us – Identifying ICT and how its responsible use improves our world in school and beyond Suggested software or hardware: • Microsoft PowerPoint	Using Computer Digital photography - Capturing and changing digital photographs for different purposes Suggested software or hardware: Digital camera i-Pads	Coding Robot algorithms – Create and debug programs using logical reasoning to make predictions. Suggested software or hardware: Discovery Education Bee-bots 2Go	Coding Programming buttons and instructions – Control one object by using another. Suggested software or hardware: Discovery Education 2Code	Using Computer Making music – Explore rhythms and melodies before creating a musical composition Suggested software or hardware: Chrome Music Lab 2Explore 2Beat	Using Computer Pictograms – Collect data in tally charts and use attributes to organize and present data on a computer Suggested software or hardware: 2Count <u>j2e.com/jit5#picto</u> gram
Year 3	Digital Literacy	IT	Computer Science	Computer Science	IT	IT
	Computers and Networks Connecting computers – Identifying inputs, processes and outputs, and how devices can be connected to make network. Suggested software or hardware: • Any painting programme	Using Computer Stop-frame animation – Capture and edit digital still images to produce a stop-frame animation that tells a story. Suggested software or hardware: iMotion 2Animate	Coding Sequence and animation – Make things happen in a sequence, creating simple animations and simulations. Suggested software or hardware: • Discovery Education	Coding Conditional events – Learn to code with 'if statements', which select different pieces of code to execute depending on what happens to other objects. Suggested software or hardware: • Discovery Education	Using Computer Desktop publishing – Creating documents by modifying text, images and page layouts for specified purpose. Suggested software or hardware: Adobe Spark Google Docs Microsoft Word	Using Computer Branching databases – Building and using branching databases to group objects using yes/no questions. Suggested software or hardware: • j2data Branch • Pictogram • 2Question
Year 4	Digital Literacy	IT	Computer Science	Computer Science	IT	IT
	Networks The internet – Further understanding of networks including WWW. Suggested software or hardware: • Various websites	Computers and Using Computer Audio editing – Capture and edit audio to produce a podcast. Suggested software or hardware: • Audacity	Coding Introduction to variables – Use variables to count things and keep track of what is going on, then create simple games which use a score variable. Suggested software or	Coding Repetition and loops – Create loops to repeat instructions. Nest loops inside each other to form more complex repetitions. Suggested software or hardware:	Using Computer Photo editing – Manipulating digital images and reflecting upon impact. Suggested software or hardware: Paint.NET	Using Computer Data logging – Recognising how and why data is collected over time, before using data loggers to carry out an investigation. Suggested software or hardware:
			hardware: • Discovery Education	 Discovery Education FMS Logo 		Data logger

Year 5	Digital Literacy	IT	Computer Science	Computer Science	IT	IT
	Networks	Using Computer	Coding	Coding	Using Computer	Using Computer
	Sharing information –	Video editing – Planning,	Speed, direction and	Random numbers and	Vector drawing –	Flat-file databases –
	Identify and explore how	capturing and editing	coordinates – Use	simulations - Apply	Creating images in a	Using a database to
	information is shared	video to produce a short	numbers to represent	knowledge of	drawing program by	order data and create
	between digital systems.	film.	things such as how fast	randomized code,	using layers and groups	charts to answer
			objects are moving, and	heading and conditional	of objects.	questions.
	Suggested software or	Suggested software or	where they are.	events to make a game.		
	hardware:	hardware:			Suggested software or	Suggested software or
	Google Slides	 Microsoft Photos 	Suggested software or	Suggested software or	hardware:	hardware:
		 Video Pad 	hardware:	hardware:	 Google Drawings 	 j2data Database
		• iMovie	 Discovery Education 	 Discovery Education 		• 2Chart
Year 6	Digital Literacy	IT	Computer Science	Computer Science	IT	IT
	Networks	Networks and Using	Coding	Coding	Using Computer	Using Computer
	Internet communication	Computer	More complex variables	Object properties - Use	3D modelling – Planning,	Introduction to
	– Recognising how the	Designing and creating	– Manipulate inputs to	property values and	developing and	spreadsheets –
	WWW can be used to	webpages giving	create useful outputs.	parameters to store	evaluating 3D computer	Answering questions by
	communicate and to be	consideration to		information about	models of physical	using spreadsheets to
	searched to find	copyright, aesthetics and	Suggested software or	objects.	objects.	organize and calculate
	information.	navigation.	hardware:			data.
			Discovery Education	Suggested software or	Suggested software or	
	Suggested software or	Suggested software or	2Simulate	hardware:	hardware:	Suggested software or
	hardware:	hardware:		Discovery Education	 Tinkercard 	hardware:
	•	Google Sites			• 2DIY3D	 Google Sheets