



Skills	Nursery	Reception	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Digital Literacy	Use technology for a particular purpose (guided access) Learn how to take a photograph on a tablet.	Select and use technology for a particular purpose. Turn an iPad on and off. Find the camera and take an appropriate photo.	Use technology to create, store and retrieve digital content. Begin to know how to use an iPad to access different apps.	Use technology purposefully to create, store, retrieve, organise and manipulate digital content. Independently use an iPad to access different apps.	Use a variety of software on digital devices. Confidently use an iPad/laptop to access different apps/program	Select and use a variety of software on digital device Troubleshoot a device that is working incorrectly.	Express own ideas by selecting, using and combining a variety of software on digital devices to design and create programs.	Express own ideas by selecting, using and combining a variety of software on a range of digital devices to create programs.
e-safety	Take turns when using a screen using a timer.	Recognise that a range of technology is used in places such as home and school. Understand sensible screen time and the importance of taking a break from a screen. Begin to understand how to use technology safely.	Develop an understanding of how to use technology safely Know where to go for help/support when they have concerns about content/contact on internet. Know how to use the internet and digital devices for everyday purpose. Know how to communicate online.	Use technology safely and respectfully, keeping personal information private. Identify where to go for help/support when concerned about content/contact on internet/other online technologies. Know how to use the internet in everyday life: online content and information.	Use technology safely, respectfully, and responsibly Recognise acceptable/unacceptable behaviour and identify ways to report concern about content and contact. Know how the internet is used and how to assess information online.	Recognise acceptable/unacceptable behaviour and identify ways to report concerns about content and contact. Know how data is shared and used. To know how spending too much time online can contribute to an unhealthy lifestyle.	Confidently, competently and responsibly use information and communication technology. Understand the need to select age-appropriate content. Know how information online is targeted; different media types, their role and impact. To explain how spending too much time online can affect health.	Confidently, competently and responsibly use information and communication technology. Identify a range of ways to report concerns about content and contact in and out of school. To be able to discuss the pros and cons of different social media apps. Know how to evaluate media sources: sharing things online. To understand





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				appropriate amount of time to be spent online for a healthy lifestyle.			the risk of online scam	the health benefits of a balanced lifestyle To communicate how we can make the online world a better place. To understand the impacts of gender stereotypes
Information Technology	Engage in a range of apps to support own learning.	Recognise that a range of technology is used in places such as home and schools. Know that we can use the internet to find out more information and use it in our own enquiries.	Begin to recognise common uses of information technology beyond school. Use technology purposefully to create digital content	Recognise common uses of information technology beyond school. Begin to know how to use a search engine with key words Use technology purposefully to create digital content comparing the benefits of different programs With support, plan a project which uses	Use some search technologies effectively and appreciate how results are selected and ranked. Decide which questions to ask when using search engines With support, select and use a variety of software to accomplish goals. Use a variety of software on digital devices to collect and interpret data. Use a camera to produce and edit high quality digital images and videos.	To know how to filter images by usage rights. Evaluate the reliability of digital content. Begin to ask and answer questions based on the reliability of digital content. To independently plan a project which uses multimedia Begin to independently select and use a variety of software to accomplish goals. In groups edit and present a project	Use a wide range of search technologies effectively and appreciate how results are selected and ranked. Be discerning in evaluating the reliability of digital content. To plan a project for real world purpose To understand AR technology and its uses in the wider world	<ul> <li>Appreciate how search results are selected and ranked.</li> <li>To create digital graphics and illustrations</li> <li>To use a video editing app to create a project</li> <li>To plan, create and present a project</li> <li>To understand and be able to discuss real world purposes for skills learnt</li> </ul>





				multimedia.		To begin to understand	To understand	To improve the
						real world purposes for	VR technology	quality and
				Animate objects		the skills learnt.	and its uses in	presentation of
				to tell a simple			the wider world	work using
				story		Collect and represent		editing and
						data	Independently	formatting
				Collect and sort			select, use and	techniques
				data			combine a	
							variety of	To understand
							software for a	the evolution of
							task.	money and the
							lask.	move to digital
							Independently	-
								currency
							select, use and combine a	To create AI-
							variety of	Text- image
							software to	
							design and	To assess data
							create content for	
							a given	
							audience.	
							To use a reverse	
							search image	
							tool	
							To create a	
							spreadsheet with	
							columns and	
							rows and input	
							data into it	
	Understand	Explore "cause	Begin to	Understand what	Start to use reasoning to	Use logical reasoning to	Write and debug	Design and write
	"cause and	and effect" when	develop an	algorithms are.	understand how	understand how	programs that	programs that
	effect"- click	selecting/pressing	understanding	algorithino alor	algorithms work.	algorithms work	accomplish	accomplish
	or press to	different buttons.	of algorithms.	Understand how			specific goals,	specific goals,
	make	different buttono.	or algorithms.	algorithms are	Detect errors in	Detect and correct errors	including	including
	something	Program simple	Begin to	implemented as	algorithms and	in algorithms and	controlling or	controlling or
Computer	•	robots by	understand that	programs on	0	J	simulating	simulating
	happen.				programs.	programs.		
Science		commanding	programs work	digital devices.			physical	physical





_	different directions	by following		Begin to solve problems	Start to use repeat	systems.	systems.
		instructions.	Understand that	by decomposing them	command statements in	oyotomo.	oyotomo.
			programs work	into smaller parts.	programs.	Solve problems	To debug a
		Create simple	by following		programo.	by decomposing	program
		programs and	clear instructions		Work with variables and	them into smaller	explaining errors
		begin to debug	i.e. block coding	Begin to work with	various forms of	parts.	you find and
		them.		various forms of	input/output	parts.	how to fix them
			Use logical	input/output	inputouput	Use sequence,	
		Develop	reasoning to	mpubbulput	Create and manipulate	selection and	То
		reasoning to	predict the	To use logical reasoning	game variables	repetition in	independently
		predict the	behaviour of	to create a program.	game valiables	programs.	add
		behaviour of	simple		To design and export	programo.	improvements to
		simple	programs.	To use block command	characters, backgrounds	Accurately	a program
		programs.	programo.	to control movement and	and objects that are	manipulate	a program
		programo.	Create and	behaviour of sprites	appropriate for the target	variables in	To understand
		Begin to	debug simple		audience.	various forms of	and use
		understand	programs.	To understand what		input/output	broadcasts as
		what a repeat	P 3	computational thinking is	Import game graphics in		event triggers
		block does	Use a repeat	<b>3</b>	a format compatible with	Use logical	0000
			block effectively.	To understand real world	the coding software	reasoning to	To understand
			,	purposes of coding	5	understand how	how a
					Understand that there	algorithms work	conditional
			To begin to		are different types of	and detect and	statement can
			understand real		command used in	correct errors in	be used in a
			world purpose		programs.	algorithms and	program to
			for coding.			programs.	change the
					Design, build and		value of a
					program models that use	To understand	variable.
					sensors to control a	how to create a	
					mechanism	repeat loop	Securely use
							logical reasoning
					Begin to understand	Independently	to understand
					binary code.	design, build and	how algorithms
						program models	work.
					To begin to create code	that use sensors	
					for real world purposes	to control a	То
					•	mechanism.	independently
							create a repeat
							loop





To use programming knowledge to produce a plan for a game design