

Strand	Reception	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
E-Safety	40-60+ months emotional	KS1 obj	·	KS2 obj		•	·
	and social Understands that		ectfully, keeping personal information		ully and responsibly; recognise accep	table/unacceptable behaviour; iden	tify a range of ways to report
To be taught	own actions affect other		help and support when they have	concerns about content and co	ntact.		
throughout each	people, for example,		act on the internet or other online				
unit alongside the	becomes upset or tries to	technologies.					
objs.	comfort another child when	Children will understand	Children will develop their	Children will increase their	Children will now show an	Children will understand the	Children will use previous
	they realise they have upset them.	where to go for help and support when they have a	understanding of how to use technology safely and keep personal	understanding of how to use technology safely and respectfully,	understanding of where to go for help when they have a concern.	importance to only select age	learning to identify a range of
	Early Learning Goal Children	worry about something on	information private.	keeping information private through	Children will increase their use	appropriate content through social media, online gaming and	ways to report concerns about content and contact in and out
	recognise that a range of	the internet.	information private.	the use of passwords. Children will	technology responsibly and	videos.	of school.
	technology is used in places			recognise acceptable and	understand that communication		
	such as homes and schools.			unacceptable behaviours online.	may be seen by others online.		
	They select and use						
	technology for particular						
	purposes.						
Coding	Children will experience	KS1 Obj		KS2 obj			
1	using BeeBots to program a	- understand what algorithms are; how they are implemented as		-design, write and debug programs that accomplish specific goals, including controlling or simulating physical systems; solve problems by			
	simple movement		d that programs execute by following	decomposing them into smaller parts	in programs, work with write line	duarious forms of insut and submit	
I	algorithm.	precise and unambiguous instructions - create and debug simple programs		-use sequence, selection, and repetition -use logical reasoning to explain how so			
	Early Learning Goal	l cicate and debug simple progr	unis		me simple algorithms work and to de		
	Children recognise that a			Children will continue to develop their	Children will show an	Children will continue to write	Children will develop their
	range of technology is used	Children will develop their	Children will now have a strong	understanding of algorithms by adding	understanding of how using	and debug their programs	understanding of the use of
	in places such as homes and	understanding of an algorithm	understanding of movement in	'if then' statements. E.G If an	multiple inputs can effect	making their algorithms	programs within a range of
	schools.	by programming movements	algorithms and will now begin to	object hits another then it will move	subsequent change in other	increasingly more complex.	technology. Children will use
		using ScratchJr and	create and debug (editing) their own	back to its starting position. Children	objects (if/then) and will now	Children will begin to use loops	previous learning to test
	Exceeding descriptor	programmable toys (Beebots)	simple programs	will link their programs to virtual	begin to add variables. Children	within their programs and	algorithms, identify potential
	Children find out about and			events.	will begin to use their own	understand how these are used	bugs and correct them.
	use a range of everyday				creativity to influence their	within many computer	Children create programs which
	technology, used in the				programs e.g. importing their	programs in which they use	use variables.
	library.				own photos, sound and/or	regularly.	
					creating their own sprite.		
Communication	Children will explore a range	- use technology purposefully to create, organise, store, manipulate		KS2 Obj			
	of programs that will allow them to show information digitally. This could be done through text, images or photos.			-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			
		Children will develop their	Children will begin to use programs	Children explore a range of new	Children will begin to select, use	Children will now show an	Children will be able to use the
		understanding of how we can	such as Word to allow them to	applications including PowerPoint and	and combine a variety of	understanding of how to use	skills they have learnt in image
		type write information	introduce images and drawings	publisher and will learn how to edit	software to accomplish a given	text, images, photos and videos	and video manipulation
		digitally by changing text on	alongside their increasing ability type	images and add images alongside text	goal.	to communicate an idea, piece	alongside work done in their
		word.	using a keyboard. (BBC dance mat	to communicate an idea. Children will	Children continue to grow in	of work, research or creativity.	'coding' strand.
			typing) They will also begin to explore	continue to increase their fluency of typing. (BBC dance mat typing)	confidence when evaluating their work using success criteria's		
			different media such as the use of	Children will begin to evaluate their	generated by the class.		
			digital cameras an video recorders.	work using success criteria's			
				generated by the class.			
						1	
Data collection		KS1 obic		K\$2 chic			
Data collection		KS1 objs	to create organica, store	KS2 objs	f software lincluding internet con	icae) on a range of digital device	s to design and create a range
Data collection		-use technology purposefully	-	-select, use and combine a variety of			
Data collection			-	-			

Year 6

en will understand the cance to only select age oriate content through media, online gaming and	Children will use previous learning to identify a range of ways to report concerns about content and contact in and out of school.



	Children to tally or count	Children will begin to record	Children to use the internet to find	Children should be shown how to	Children should be able to pick	Children should be able to	Children to continue to develop
	using a digital application.	information using numbers to	information to create bar charts.	create frequency charts/ bar charts	and choose how to represent	record and present data using	their understanding of data by
		create a chart.	(2calcuate)	using word, alongside their data	data using the Office suite.	Microsoft word and PowerPoint	increasing their understanding
		2simple – 2 calculate		collection.	Alongside their data collection.		of spreadsheets.
						Begin to use spreadsheets to	
						present data	
Networks	Children to be exposed to the possibilities of learning that the		Children will how computer networks enable the sharing of data and		Children will increase their	Children will begin to use	Children will develop their
	internet can provide.		information and how the internet is a large network enabling data and		understanding of large computer	internet services to share and	understanding of how networks
			information to be shared between computers.		networks and how servers		enable computers to share,
					provides services to networks.	attaching files to an email.	communicate and collaborate.