

Curriculum Skills Progression – COMPUTING

Nursery	Reception	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
			Digital literacy				

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ť	I know what a	I know why we	I can keep my	I can explain why	I can talk about	I can choose a	I can protect my	I can use my
E-safety	password is.	need passwords.	password private.	I need to keep my	what makes a	secure	password and	privacy settings to
E-S:				password private.	secure	password for	other personal	keep my personal
_	I know that my	I know my name,	I can tell you		password and	online	information.	information safe
	name is	age, address and	what personal	I can explain why	why they are	tools/sites		
	personal	where i go to	information is.	it's important to	important.		I can explain	I can explain the
	information.	school is personal		keep my personal		I can talk about	why I need to	consequences of
		information.	I can tell an adult	information	I can protect	the ways I can	protect myself	sharing too much
	I can ask for		when I see	private.	my personal	protect myself	and my friends	information about
	permission to	I can tell an adult	something		information	and my friends	and the best	myself online and
	use a device	before I go online.	unexpected or	I know what to do	when I do	from harm	ways to do this,	support my
			worrying online.	when I see	different things	online.	including	friends to protect
		I can show an adult		something	online.		reporting	themselves
		the websites I am	I can recognise an	inappropriate		I can use the	concerns to an	
		using to check they	age appropriate	online e.g. use	I can use the	safety features	adult.	I can protect my
		are appropriate.	website.	the report button	safety features	online (e.g.		computer or
					of websites as	apps, games,	I can explain	device from harm
		I know that games	I know that not all	I can describe the	well as	devices) as	why I need to	on the internet.
		and files can be	downloadable	things that	reporting	well as	protect my	
		downloaded using	games and files	happen online	concerns to an	reporting	computer or	I can identify age
		the internet.	on the internet	that I must tell an	adult.	concerns to an	device from	appropriate
			are safe	adult about.		adult.	harm.	websites, apps
		I know that			I can recognise			and games online.
		everyone can put	I know that not	I can explain why	websites and	I can choose	I can discuss the	
		their information	everyone is who	not all	games	websites and	importance of	I can explain why
		online.	they say they are	downloadable	appropriate for	games that are	choosing an	it is important to
		I know that anyone	on the internet.	games and files	my age.	appropriate for	age-	check resources
		can access		are not safe.		my age.	appropriate	found on the
		information online.	I know that		I can ask an		website or	internet before
			anyone and		adult before	I can talk about	game.	downloading
			everyone can		downloading	why I need to		them.
			post anything		files and games	ask a trusted	I know which	I understand why



online I understand that from the adult before r	resources on	it is important not
people can internet. downloading t	the internet I	open messages
pretend to be files and games c	can download	and emails from
someone they are from the	and use.	unknown
not online I understand internet. I	I know not to	people/profiles
how easy it is	open messages	
I can explain how for people to I can question a	and emails from	I can explain the
everyone can make a fake the validity of lu	unknown	positive and
post anything profile profiles online.	people/profiles	negative impact
online		of anything that is
I know that I understand I	I know that	posted online.
anything I post the a	anything I post	
online can be consequences of	online can be	
seen by others. of posting s	seen, used and	
something r	may affect	
online c	others.	

l	E-sense	I can recognise that a range of technology is used in places such as homes and school	I can recognise common uses of information technology beyond school	I can talk about why I should go online for a short amount of time. I know that any	I can make good choices about how long I spend online.	I can use strategies to manage the time I spend online or playing a	I can talk about the dangers of spending too long online or playing a game.	I can explain the consequences of spending too much time online or on a game.
		and somes.	I can talk about	messages or	positive	game.	I can explain the	I can explain the
		I can be kind and	why it's	personal mages I	comments and	8	importance of	consequences to
		respectful online	important to be	use online leave a	sensible	I can post and	communicating	myself and others
			kind and polite.	trail	personal	comment	kindly and	of not
					images online.	positively and	respectfully.	communicating
					I know to ask	respectfully online.	I know that	kindly and respectfully.
					permission to	omme.	posting other	I can explain the
					post a photo of	I understand	people's photos	impact of posting
					someone else	why I need to	without	another person's
					online	ask permission	permission can	photo online
						to post a photo	have	without
						of someone	consequences	permission
						else online		



Computer science										
I can experiment with pushing buttons on toys and notice that pushing a button has an effect.	I can understand that pushing a button on a toy will give it an instruction I can predict what will happen when they push a button. I can work what is wr button. I can read one line at time and r a good attempt to predict the overall eff of the pro	the need for algorithms to be precise I can create a simple program that achieves a specific purpose I can identify and correct some errors and show an awareness of the need for logical, programmable e steps	I can create an algorithm for a program by deconstructing it I can create a design that shows the thinking of the desired task and how it translates into code I can identify an error within created program and make an attempt to fix it. I can use simple sequences to design and code a program	I can create an algorithm by using coding structures for selection and repetition I can make more intuitive attempts to debug their own programs I can use timers to achieve repetition effects that are becoming more logical and are integrated into my program designs	I can test and debug programs as I go and can use logical methods to identify the approximate cause of any bug and identifying the specific line of code I can translate algorithms that include sequence, selection and repetition into code with increased ease to create my own programs	I can identify the important aspects of a task (abstraction) and then decompose them in a logical way using my knowledge of possible coding structures. I can test and debug my programs as I go and use logical methods to identify particular line of code causing a program. I can nest coding structures within each other;				



	I can list and use a range of ways that the internet can be used to provide different methods of communication	
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Information technology literacy

Literacy software	I can recognise and press letters on an interactive whiteboard.	I can type in usernames and passwords to log on to a computer	I can use a basic word processing package e.g. to write and illustrate a story. I can type simple sentences on a computer.	I can make simple presentations. I can contribute to collaborative writing e.g. a class blog or story. I can type sentences correctly using the spacebar.	I can use software to create an ebook, brochure or poster on a given topic. I can use simple software to communicate with others (e.g. email) I can type sentences using the spacebar and shift key.	I can write and deliver a presentation on a given subject. I can write a blog on a given topic. I can type paragraphs using the shift key and correct punctuation symbols.	I can use software to create an ebook, brochure or poster incorporating a range of media. I can use email to communicate with others using a variety of email functions e.g. attachments, CCing and signatures. I can begin to	I can write and deliver a presentation incorporating a range of media. I can independently write and edit their own blog, commenting on other people's blogs. I can touch-type and use shortcuts on the keyboard.
							touch-type when typing on a computer.	



				I can support others to improve their work.	I can evaluate the effectiveness of my own and other's work, considering the impact on the intended audience
					I can make improvements to my work and support others to improve theirs

activities to the use of ICT e.g. sorting fruit into colours, types or shapes, and then on screen. In can use ICT to sort and different kinds of sequence objects on a screen or interactive board I can create simple pictograms with support. I can crale use of ICT e.g. I can talk about to help collect data answer questions. I can make and information can be shown. I can talk about to help answer a question. I can collect data to help answer a question. I can add to a database to answer question. I can add to a database to answer question. I can add to a database to answer question. I can add to a database e.g. j2e on lgfl from pictogram, using digital software, and talk about what I have found given I can use a data I can use addatabase to answer questions. I can collect data to help answer a question. I can add to a database e.g. questions. I can add to a database e.g. j2e on lgfl from what I have found given I can use a data I can use a data I can use a data logger to and, or, not) to develument of the develument of the develument of the develument of the data on to the database to answer questions. I can collect data to help answer a questions. I can collect data to help answer a question. I can add to a database e.g. questions. I can add to a database e.g. j2data on LGfL I can choose the best way to present data to online grocery way. I can choose the best way to present data to online grocery way. I can use a data logger to and, or, not) to development of the database e.g. skills to others. I can use a data logger to and, or, not) to development of the database e.g. skills to others.	different ways. I can collect data and identify where it could be inaccurate. I can plan, create and search a database to answer questions. I can choose the best way to present data to others. I can use a data logger to record and share their readings with others. I can collect and record data (old ata coll investigate data) I can choose an appropriate tool to help collect data coll data coll for accu plausibil the mometer) I can present data in an appropriate way. I can present data database (eg. a library database, online grocery shopping) using different operators (e.g. and, or, not) to record and share their search. I can talk about mistakes in data and suggest how it could be	rent ways be data in different ways data in different ways data in different ways data in different ways data and identify ways it could be inaccurated. Lect data and identify ways it could be inaccurated and search a database to answer questions. Loan choo the best ways data logger record and share their readings ways others.	the different data can be organised. I can search ready-made database to answer question. I can add to database e.g j2data on LG I can make a branching database e.g on lgfl or 2 question. I can use a d logger to more changes and talk about the information	the different ways to use technology e.g. a camera, microphone or sound recorder. I can make and save a chart or graph using the data collected. I can talk about the data in mychart or graph. I can create a simple branching database e.g. j2e on lgfl from given	technology to collect information including photos, videos and sound. I can talk about different ways in which information can be shown. I can sort different kinds of information and present it to others. I can add information to a pictogram, using digital software, and talk about what I have found	sort, classify or group various objects progressing from practical activities to the use of ICT e.g. sorting fruit into colours, types or shapes, and then on screen. In can use ICT to sort and sequence objects on a screen or interactive board I can create simple pictograms with	information e.g. by taking photographs or collecting	Data Handling



Using the internet	I know that some devices are connected to the internet	I can identify which devices access the internet e.g. TV, mobile phones, tablets, PC, laptop, gaming devices.	I can make a distinction between modern technology that uses the internet and technology that does not. I can show an awareness of how IT is used for communication beyond school	I can retrieve relevant information using a search engine I can make links between technology I see around me and the learning I do in school	I can retrieve digital content using a search engine I understand that search engines select pages according to keywords found in the content I can search for information within a single site	I can understand that search engines rank pages according to relevance I can decide whether digital content is relevant for a given purpose or question I understand that the internet transmits information as packets of data	I can use advanced search options to make more effective use of a search engine I understand and can explain in some depth the difference between the Internet and the World Wide Web I know what a WAN and a LAN are and can describe how they access internet in school I understand that search engines use a cached copy of the crawled web to select and rank results	I can apply filters when searching for digital content I can explain in detail how credible a webpage is and the information it contains. I can compare content sources and rate them in terms of quality and accuracy. I can appreciate that search engines rank pages based on the number and quality of inbound links