



	Nursery	Reception	ELG
Personal, Social and Emotional Development	Remember rules without needing an adult to remind them.	Show resilience and perseverance in the face of a challenge. Know and talk about the different factors that support their overall health and wellbeing: - sensible amounts of 'screen time'.	Be confident to try new activities and show independence, resilience and perseverance in the face of challenge. Explain the reasons for rules, know right from wrong and try to behave accordingly.
Physical	Match their developing physical skills to tasks and activities in the setting.	Develop their small motor skills so that they can use a range of tools competently, safely and confidently.	
Understanding the World	Explore how things work.		

Computer Science					
Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Give instructions to	Understand what an	Understand how an	Design simple algorithms	Program a condition that	Understand the importance of
a friend and follow	algorithm is and	algorithm is implemented	using loops and repeats,	uses a sensor to detect a	planning, testing and correcting
their instructions to	demonstrate simple	using a sequence of precise	whilst detecting and	change, which can select an	algorithms.
move around a	linear algorithms.	instructions.	correcting errors is	action within a program.	
space.	Po able to explain the	Can prodict the outcome of a	debugging.	Decembered more	Demonstrate a range of
Describe what	Be able to explain the order needed to do	Can predict the outcome of a sequence of precise	Write and execute an	Decomposes more openended problems into	different strategies to solve a
happens when	things to make	instructions.	efficient program, using	smaller parts, provides some	problem including: abstraction,
buttons are pressed	something happen and to	instructions.	loops such as forever, repeat	reasoning for their choices.	decomposition, logic &
on a robot or	talk about it as an	Repeatedly test a program	& repeat until commands.	reasoning for their choices.	evaluation.
device.	algorithm.	and recognise when they	& repeat until commands.	Approaches a range of	
device.	algoritim.	need to debug it.	Decompose a problem into	problems using	Understand why sequence &
Press buttons in the	Programme a robot or	need to desag it.	smaller parts with some	computationally thinking	patterns are important when
correct order to	software to do a	Detect a problem in an	verbal reasoning.	concepts, helping them to	creating simple algorithms that
make a robot	particular task.	algorithm, which could result		design other algorithms for	are part of a more complex
follow a short	particular turn	in a different outcome to the	Has an understanding of	other specific outcomes.	program.
sequence.	Look at a basic program	one intended.	how sequencing, using		
'	and explain what will		inputs and repetition in	Design, write and execute an	Gives reasoning for each step
Understand what	happen.	Understand what inputs and	programs has specific effects	efficient program, including	within algorithms and applying
an algorithm is and		outputs are, how they can be	on the output, works with	selection (IFTHEN)	them to a program.
be able to create a	Use programming	used.	'loops' and understands	command.	
simple algorithm.	software and		their effect.		Understand & develop complex
	applications to make	Provide examples of how to		Change an input to a	flow diagrams.
Understand and	objects move.	use inputs and outputs	Recognise that an algorithm	program to achieve a	
explain how		effectively.	will help to sequence more	different output.	Use a variable to increase
algorithms are used	Use logical reasoning to		complex programs.		programming possibilities.
in every day life.	predict and debug more	Designs, writes, executes		Use logical reasoning to	programming possibilities.
	complex programs.	and debugs programs of	Use logical reasoning to	predict and debug more	
Begin to predict		increasing complexity that	predict and debug more	complex programs including	Use a variable and relational
what will happen	Can create and debug	accomplish a specific goal.	complex programs including	selection.	operators (e.g. < = >) within a
for a short	with improved		loops and repeats.		loop to stop a program.
sequence of	confidence & efficiency.	Use logical reasoning to		Uses programs linked to	
instructions.	Begin to program using	predict and debug more		physical systems and sensors	Evaluate the effectiveness and
Begin to use	simple block code.	complex programs including		e.g. the alarm goes off when	efficiency of an algorithm while
different software		inputs and outputs.		the sensor is triggered.	continually testing the
or applications to					programming of that program.

create movement and patterns on a screen. Use the word	Design, write and execute an efficient program, which demonstrates and understanding of the difference between, and	Use different inputs (including sensors) to control a device or onscreen action and predict what will happen.
debug to correct an algorithm that doesn't work in the way it was intended.	appropriate use of IFTHEN, IFTHENELSE, and nested IF statements.	Use logical reasoning to predict and debug more complex programs including: selection, variables and operators.

Digital Literacy					
Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Understand why we need passwords.	Understand the need to keep a password private.	Children consider their responsibilities and actions to others online.	Understand that media can be edited online for advertising and other	Be aware of their digital footprint.	Be aware of fake news and how to dissect it.
Understand that we must keep passwords private.	Understand the need to keep personal information private.	Children consider that all of the media they see could have been altered.	purposes. Recognise what is acceptable	Understand the dangers of building online relationships.	Understand the difference between misinformation and disinformation.
Explain what personal information is.	Demonstrate the use of technology responsibly in terms of how we use it and the time we spend	Understand how to use a search engine responsibly and safety	and unacceptable behaviour when using technology and online services. Children understand how	Explain what the consequences might be to using technology inappropriately or accessing inappropriate content	Understand what Copywriting is and using someone else's work responsibly.
Understand that we must keep personal information private.	using it. Know how to report inappropriate content or	,	effective a strong password is and what a strong password looks like.	intentionally.	Manage their conduct and contact appropriately and safely when using technology and
Communicate safely and respectfully online.	contact online.				online services.
Know what to do when concerned about online content.					
Know what to do if someone tries to contact you online					

Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Recognise that a	Children can explain why	Save and retrieve work	Understand the difference	Use different online tools for	Explain the Internet services
range of digital	they use technology in	online, on the school	between the Internet and	different purposes.	they need to use for different
devices and	the classroom, in their	network and their own	online services such as the		purposes.
products can be	homes and in the	device.	World Wide Web, instant	Use a search engine	
considered	community.		messaging and email.	effectively to find	Describe the different parts of a
computers.		Tell you ways to		appropriate information and	webpage.
	Identify the benefits of	communicate with others	Tell you whether a resource	check the reliability of a	
Recognise the ways	using technology, such as	online.	they are using is from the	website.	Understands how to construct a
in which technology	creating content and		World Wide Web, the school		website using basic HTML tags.
is used in their	communicating	Knows how navigate the	network or their own work.	Understand how search	website using busic irrivit tags.
homes and	efficiently.	web responsibly.		results are selected and	
community.			Identify key words to use	ranked and the algorithms	Explain what copyright is and
	Can identify a computer	Can carry out effective web	when searching safely on the	they use.	acknowledge the sources of
Understand that	by knowing that it has	searches to collect digital	World Wide Web.		information that they find
computers have no	inputs, a processor and	content.		Recognise and evaluate	online.
intelligence and can	outputs.		Show an awareness of a	different types of	
do nothing without		Think about whether they	range of Internet services	information they find on the	Understands how data is
being programmed.	Can identify parts of a	can use images that they	such as the World Wide	World Wide Web.	transmitted across a network.
	computer including what	find online in their own	Web, email and instant		
Begin to identify	an input and output is.	work.	messaging.	Think about the reliability of	Understand what IP is and how
some of the			Fundain have to also decide	information they read on the	it's used.
benefits to using			Explain how to check who	World Wide Web or other	
technology.			owns photos, text and	Internet services (Fake	Can explain how networks use
			clipart.	News).	the Internet to send and receive
					data.