	EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
				Turn a	 Thinking 	 Attempt to 	Tune a
				simple real-	about the	turn more	more
			Explain that an algorithm	life situation	required task	complex real-	complex
		Understand		into an	and how to	life situations	programmin
		that an algorithm is a		algorithm	accomplish	into	g task into
				 Design 	this in code	algorithms for	an algorithm
		set of	is a set of	shows that	using coding	a program by	by
		instructions	instructions to	they are	structures for	deconstructin	identifying
		used to solve	complete a	thinking of	selection and	g it into	the
	To complete a simple program on a computer To understand the importance of clear instructions to complete a task To understand the importance of clear instructions to complete a task	a problem or achieve an objective.	task.	the desired	repetition	manageable	important
			Show	task and	 Make more 	parts.	aspects of
			awareness of the needs to	how this	intuitive	 Translate 	the task and
		Know that an		translates	attempts to	algorithms	then
		algorithm	be precise	into code	debug their	that include	decomposin
		written for a	with their	 Identify an 	own	sequence,	g them in a
		computer is	algorithms.	error within	programs	selection and	logical way
Comput		called a	Create a	their	Understand	repetition into	using their
er		program.	simple	program that	'if statements'	code with	knowledge
Science		 Can make logical attempts to fix the code. Read code one line at a 	program that achieves a specific purpose. Identify the parts of a	prevents it	and attempt	increasing	of possible
				following the	to combine	ease.	coding
				desired	these with	Think about	structures
				algorithm	other coding	code	and
				and then fix	structures	structure in	applying
				it	including	terms of	skills from
		time.	program that	Understand	variables	ability to	previous
		 Attempt to 	respond to	how	Trace code	debug and	programs.
		envision the	specific	variables	and use step-	interpret the	Use logical methods to
		bigger picture	events and initiate	can be used	through methods to	code later	methods to
		of the overall		to store information		 Understand the value of 	identify the cause of
		effect of the	specific actions	while a	identify errors in code	computer	
		program.	actions			networks but	bugs, demonstrati
				program is executing.	 Recognise the main 	are also	
				List a range	component	aware of the	ng a systematic
				of ways that	parts of	main dangers	approach to

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the internet	hardware	 Recognise 	try to
can be used	which allow	what	identify a
to provide	computers to	personal	particular
different	join and form	information is	line of code
methods of	a network	and can	causing a
communicati		explain how	problem
on		this can be	 Translate
		kept safe	algorithms
			that include
			sequence,
			selection
			and
			repetition
			into code
			and their
			own designs
			show that
			they are
			thinking of
			how to
			accomplish
			the set task
			in code
			utilising
			such
			structures
			including
			nesting
			structures
			with each
			other
			 Understand
			and explain
			in some
			depth the
			difference
			between the
			internet and

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							the World Wide Web Know what a WAN and
							LAN are and can describe
							how they access the
							internet in school
Informat ion Technol ogy	 To select and use technology for particular purposes To understand that technological devices can store information 	Sort, collate, edit and store simple digital content	 Demonstrate an ability to organise data and can retrieve specific data for conducting simple searches. Edit more complex digital data. Use a range of media in their digital content 	 Carry out simple searches to retrieve digital content and understand that you need to connect to the internet to do this Collect, analyse, evaluate and present data and information using a selection of software 	Understand the function, features and layout of a search engine Appraise selected webpages for credibility and information at a basic level Able to make improvement s to digital solutions based on feedback	Search with greater complexity for digital content when using a search engine Explain in some detail how credible a webpage is and the information it contains Collaborativel y create content and solutions using digital features within software	 Readily apply filters when searching for digital content Explain how credible a webpage is and the information it contains Compare a range of digital content sources and rate them in terms of content quality and accuracy Make clear connections to the audience when

Progression of skills in Computing

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							designing and creating digital content • Demonstrat
Digital Literacy	Understand what is meant by technology and devices they might use Talk about technological features in their own environment and how this might differ in other environments Understand the importance of keeping information private.	 Understand what is meant by technology and can identify a variety of examples both in and out of school. Can make a distinction between objects that use modern technology and those that do not. Understand the importance of keeping information private. 	 Effectively retrieve relevant, purposeful digital content using a search engine Apply their learning of effective searching beyond the classroom. Know the implications of inappropriate online searches. 	Demonstrat e the importance of having a secure password and not sharing this with anyone else, and can explain the negative implications of failure to keep passwords safe. Know more than one way to report unacceptabl e content and contact.	Explore key concepts relating to online safety using concept mapping Help others to understand the importance of online safety Know a range of reporting inappropriate content and contact	Have secure knowledge of common online safety rules Implicitly relate appropriate online behaviour to their right to personal privacy and mental wellbeing of themselves and others	e the safe and respectful use of a range of different technologie s and online services Identify more discreet inappropriat e behaviour through developing critical thinking Recognise the value in preserving their privacy when online for their own and others safety