

Warton St. Paul's Primary Academy Computing Progression of Skills 2022-2023

EYFS		Year 1	Year 2	Year 3/4	Year 5	Year 6
To explore the hardware	Computer Science	To understand that an	To explain that an	To be able to turn a real	To be able to turn more	To turn a more complex
and software available	·	algorithm is a set of	algorithm is a set of	life situation into an	complex real life	program into an
in class.		instructions used to	instructions to complete	algorithm using coding	situations into	algorithm by identifying
		solve a problem or	a task. When designing	structures for selection	algorithms for a	the important parts
		achieve an objective.	simple programs,	and repetition.	program by	(abstraction) and then
		They know that a	children show an	Children can attempt to	deconstructing it into	decomposing them in a
		computer program turns	awareness of the need	debug their own	manageable parts.	logical way using coding
		an algorithm into code	to be precise with their	programs.	To test and debug their	structures and applying
		that the computer can	algorithms so that they	To use timers to achieve	own programs.	previously learnt skills.
		understand.	can be successfully	repetition effects in a	To translate algorithms,	To test and debug
		To work out what	converted into code.	logical and integrated	that include sequence,	programs as they go
		is wrong with a simple	To create a simple	way into programs they	selection and repetition	using logical methods to
		algorithm when the	program that achieves a	create.	into code with	identify the cause of the
		steps	specific purpose. They	To develop an	increasing ease.	bugs and using a
		are out of order.	can also identify and	understanding of how to	When coding, children	systematic approach to
		To know that an	correct some errors.	change variables and	can think about their	identify the line of code
		unexpected outcome is	To identify the	values to store	code structure in terms	that is causing a
		due to the code they	parts of a program that	information while a	of the ability to debug	problem.
		have created and can	respond to specific	program is executing.	and interpret the code	To translate algorithms
		make logical attempts to	events and initiate	To create programs that	later.	that include sequence,
		fix the code.	specific actions. For	have a logical structure	To understand the value	selection and repetition
		To read code one line at	example, they can write	with achievable steps	of computer networks	into code using their
		a time and make good	a cause and effect	and taught coding	but are aware of the	own designs by utilising
		attempts to envision the	sentence of what will	structures.	main dangers of them.	such structures,
		bigger picture of the	happen in a program.	To recognise the main	To understand what	including nesting within
		overall effect of the		components of	personal information is	each other.
		program.		hardware which allow	and can explain how to	To have an improving
				computers to form a	keep this safe.	understanding of
				network.		variables in coding,
						outputs such as sound

				T	To colore allocations of	
				To understand the	To select the most	and movement, inputs
				online safety	appropriate form of	from the users such as
				implications associated	online communications.	button clicks and the
				with using the internet.		value of functions.
						To know what a WAN
						and LAN are and how
						they are used in school
						to access the internet.
To access	Information	To sort,	To demonstrate an	To understand the	To search with greater	To apply filters when
age-appropriate apps	Technology	collate, edit and store	ability to organise data	function, features and	complexity when using	using a search engine.
and games.		simple digital content.	using, for example, a	layout of a search	search engines and can	To explain in detail how
			database.	engine.	explain with some detail	credible a webpage is
				To begin to question the	how credible the	and the information that
				credibility of web pages	webpage, where the	is retrieved from it.
				at a basic level.	information is stored, is.	To compare various
				To make software	To collaboratively create	digital sources and rate
				choices when presenting	content and solutions	them in terms of quality
				information.	using digital features	and accuracy.
					within appropriate	To make clear
					software.	connections with the
						audience when
						presenting content.
To understand online	Digital Literacy	To understand what	To effectively retrieve	To begin to help others	To have a secure	To demonstrate safe and
safety, if something		is meant by technology	relevant, purposeful	to understand the	common knowledge of	respectful use of a range
upsets them or goes		and can identify a	digital content using a	importance of online	online safety rules and	of digital technologies
wrong when they are		variety of examples both	search engine. They can	safety.	can apply these by	and online services.
using the internet they		in and out of school.	apply their learning of	To be able to recall ways	demonstrating the safe	To identify more discrete
need to tell someone.		They can make a	effective searching	of reporting	and respectful use of	inappropriate behaviour
		distinction between	beyond the classroom.	inappropriate content	different technologies.	and use.
		objects that use modern	They can share this	and contact.	To relate appropriate	To recognise the value of
		technology and those	knowledge.		online behaviour to	preserving privacy when
		that do not.	To know the		their right to privacy and	online for the safety of
		To understand the	implications of		mental well-being of	themselves and others.
		importance of keeping	inappropriate online		themselves and others.	
		information, such as	searches. Children begin			
		their usernames and	to understand how			
		passwords, private and	things are shared			
		actively demonstrate	electronically.			
		this in lessons. Children	•			
		take ownership of their				

I		work and save this in		
		their own private space.		