



Computing at Spring Bank Primary School

Contents

- Curriculum intent for Computing
- Overview of Units Taught
- Computing Age Related Expectations
- Key knowledge





Computing Curriculum Intent

At Spring Bank Primary School, we understand that computing is a vital part of children's lives and that we need to prepare our pupils for an unknown technological future. Computing is an integral part of the national curriculum and is a key skill for everyday life. Computing has deep links with literacy, mathematics, science, and design and technology, and provides insights into both natural and artificial systems. At Spring Bank Primary School, we aim to:

- Provide pupils with the opportunity to develop computing skills to enhance and extend their learning in other areas of the curriculum
- Ensure equality of access to computing resources, skills and techniques regardless of Special Educational Needs, race, gender and religion
- Give pupils the opportunity to enjoy computing and to feel proud of their achievements
- Enable pupils to become increasingly confident and skilful users of computing whilst also encouraging their understanding of its limitations and implications for the future
- Ensure pupils understand and apply the fundamental principles and concepts of computer science, including abstraction, logic, algorithms and data representation
- Support pupils to analyse problems in computational terms, and have repeated practical experience of writing computer programmes in order to solve such problems
- Ensure pupils evaluate and apply information technology, including new or unfamiliar technologies, analytically to solve problems
- Be responsible, competent, confident and creative users of information and communication technology.

The Computing Programme of Study in the National Curriculum puts a clear emphasis on three areas of learning:

- Computer science how computers work and how to write algorithms and solve problems to eventually create a computer programme
- Information Technology how data is represented and managed on computers
- Digital Literacy how to understand digital information and interact with it safely and appropriately.

At Spring Bank Primary School, KS1 and KS2 pupils are taught computing with specific, timetabled lessons in our ICT suite, covering the objectives from the National Curriculum. These lessons are linked to topic themes wherever possible. Computing can cover many aspects but are not limited to computer use. Many 'unplugged' activities also contribute to their entitlement. Purple Mash is used throughout school and lends itself to cross-curricular aspects of computing that can be used to enhance pupil's learning and experiences. Pupils have the opportunity to use computing within the classroom across a range of subjects using a range of technology resources, such as laptops and iPads.





Lessons are planned using the National Curriculum Programme of Study and enhanced by Purple Mash to promote a greater depth of understanding, developing of skills, contextual application of these skills and the ability to perform reflectively. Pupils will be presented with opportunities to be creative and co-operative and to face challenges and solve problems in all aspects of computing. These may take the form of 'unplugged' activities. They will learn how to think in different ways to suit the different challenges, receiving opportunities to demonstrate their learning across a range of skills, allowing for effective assessment. This assessment will be used to inform planning and promote greater learning.





Overview of Units

Predominant Area of Computing covered by								
unit								
Computer	Information	Digital						
Science	Technology	Literacy						

The order of units has been changed in some classes to ensure that the Computing Curriculum is tailored to fit with the needs of the wider curriculum.

Year				Purple Mash u	nits being taug	ht 2022-2023					
Group	p										
Rec	Mouse and track pas skills	Keyboard skills	Drawing skills	Robots	Sounds	Photography	Technology around us	Hardware	Safety and privacy		
	Quizzes	Using Purple individual log	Mash with an in.	Resources are	designed to inte	egrate into ever	y day routine ir	the early years s	etting.		
Year 1	1.1 Online Safety/Exploring Purple Mash	1.9 Technology outside school	1.2 Grouping and sorting	1.3 Pictograms	1.4 Lego Builders	1.5 Maze Explorers	1.7 Coding	1.6 Animated Story Books	1.8 Spreadsheets		
Year 2	2.2 Online Safety	2.6 Creating Pictures	2.1 Coding.	2.5 Effective Searching	2.3 Spreadsheets	2.4 Questioning	2.7 Making Music	2.8 Presenting Ideas			
Year 3	3.2 Online Safety	3.4 Touch Typing	3.5 Email	3.3 Spreadsheets	3.8 Graphing	3.9 Presenting	3.6 Branching Databases	3.1 Coding	3.7 Simulations		
Year 4	4.2 Online Safety	4.7 Effective Searching	4.6 Animation	4-3 Spreadsheets	4.5 Logo	4.4 Writing for different purposes	4.8 Hardware Investigated	4.1 Coding	4.9 Making Music		
Year 5	5.2 Online Safety	5.1 Coding	5.3 Spreadsheets	5.6 3D Modelling	5.4 Databases	5.5 Games Creator	5.7 Concept Maps	5.8 Word Processing			
Year 6	6.2 Online Safety	6.1 Coding	6.3 Spreadsheets	6.4 Blogging	6.5 Text Adventures	6.6 Networks	6.7 Quizzing	6.8 Understanding Binary			





Computing Age Related Expectations

This document lays out an overview of the computing which is taught across school from Reception to Year 6. This include the EYFS, as well as the programmes of study from the National Curriculum that must be taught in KS1 and KS2.

Computing in EYFS

Despite Computing not being explicitly mentioned in the Early Years Foundation Stage statutory framework, there are many opportunities for young children to use technology to solve problems and produce creative outcomes. At Spring Bank, we encourage our Reception age children to use a variety of digital devices within their everyday learning. Children are encouraged to explore technology such as Bee-Bots so that they will be ready to take on tasks once they enter Key Stage 1.

Subject Content

Key Stage 1

Pupils should be taught to:

- understand what algorithms are; how they are implemented as programs on digital devices; and that programs execute by following precise and unambiguous instructions
- create and debug simple programs
- use logical reasoning to predict the behaviour of simple programs
- use technology purposefully to create, organise, store, manipulate and retrieve digital content
- recognise common uses of information technology beyond school
- use technology safely and respectfully, keeping personal information private; identify where to go for help and support when they have concerns about content or contact on the internet or other online technologies.

Key Stage 2

Pupils should be taught to:

• design, write and debug programs that accomplish specific goals, including controlling or simulating physical systems; solve problems by decomposing them into smaller parts





- use sequence, selection, and repetition in programs; work with variables and various forms of input and output
- use logical reasoning to explain how some simple algorithms work and to detect and correct errors in algorithms and programs
- 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
- use search technologies effectively, appreciate how results are selected and ranked, and be discerning in evaluating digital content
- select, use and combine a variety of software (including internet services) on a range of digital devices to design and create a range of programs, systems and content that accomplish given goals, including collecting, analysing, evaluating and presenting data and information
- use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact.





Key Knowledge

Substantive Knowledge – knowledge of hardware, software, programmes and applications Disciplinary Knowledge – knowledge of the practices of computing (how to...)

			Voar	One			
1.1 Online	1.2 Grouping and	1.2 Distograms			1.7 Coding	1.6 Animated Story	1.9 Sproadshoots
	1.2 Grouping and	1.2 Pictograms Knows that data	1.4 Lego Builders Knows how to	1.5 Maze Explorers Knows the	1.7 Coding Knows what	1.6 Animated Story Books	1.8 Spreadsheets Knows what a
Safety/Exploring	sorting Knows how to	can be	compare the effects	functionality of the	instructions are	Knows what e-books	
Purple Mash			•	,			spreadsheet
Knows how to log in	sort items using a	represented in a	of adhering strictly to	direction keys in	and can predict	are. • Knows of	program
safely.	range of criteria	picture format	instructions when	2GO.	what might	software such as	environment looks
Knows how to	Knows how to	e.g. pictogram.	completing tasks	Knows how to	happen when	2Create a Story that	like including cells,
navigate to a	use software for	Knows how to	without complete	create and debug a	they are followed.	allows users to	rows and columns.
document area	grouping items	contribute to a	instructions.	set of simple	 Knows how to 	create interactive	 Knows basically
where saved work by	such as tools	class pictogram.	 Knows how to 	instructions	plan and make a	stories. • Knows how	what a spreadsheet
child can be found.	within Purple	 Knows how to 	follow and create	(algorithm).	simple computer	to add animation to	program can help
 Knows how to use 	mash.	use a software	simple instructions	 Knows how to 	program e.g. fish	an interactive story.	do.
search to locate		such as 2Count to	on the computer. •	use the additional	moves right, crab	 Knows how to add 	 Knows how to
applications or		record results of	Knows that the order	direction keys	moves up.	sound, including	enter data into
resources on a		an experiment	of instructions affects	within 2Go as part	 Knows what 	voice recordings and	spreadsheet cells.
platform such as		into a pictogram	the end result for a	of an algorithm.	objects, actions	music to a story they	 Knows how to add
Purple Mash.		format.	given instructional	 Knows how to 	and backgrounds	have created using	images to cells.
 Knows how to 			task.	change and extend	are within a	software.	 Knows how to
enhance work by				the algorithm list in	coding	 Beginning to know 	use some tools
adding multimodal				2Go.	environment.	how to work on	within spreadsheets
items such as text					 Knows what an 	more complex digital	e.g. with 2Calulate
and images.					event is and	stories, including	can use lock cell,
 Knows how to 					knows how to use	adding backgrounds,	move cell, speak
open, save and print					an event to	copying and pasted	and count.
work.					control an object.	pages.	
Knows the					Beginning to	Knows how to	
importance of					know how code	share digital stories	
logging out of an					executes when a	with others such as	
account.					program is run.	using Digital Display	
						Boards.	





			Ye	ar Two			
2.2 Online Safety	2.6 Creating	2.1 Coding.	2.5 Effective	2.3 Spreadsheets	2.4 Questioning	2.7 Making Music	2.8 Presenting
Knows how searches	Pictures	 Knows what an 	Searching	Secures knowledge	Knows that	Knows how to	Ideas
can be refined when	 Knows the 	algorithm is and	Knows the meaning	from prior year	pictograms provide	make forms of	Know that digital
searching digitally	purpose and	can explain that it is	of key Internet and	when spreadsheets	limited information.	music (digitally)	content can be
and therefore	benefits of	a set of instructions	searching terms. •	were introduced	 Knows that there 	using age	presented in many
attempts refining	painting	and that algorithms	Knows the basic	(See unit 1.8). •	are other data	appropriate	different forms e.g.
when searching.	software tools	follow a sequence.	parts of a web	Knows how to use	handling tools that	software such as	stories.
 Knows that digitally 	such as 2Paint a	 Knows how to 	search engine page.	prior learning to	can give more	2Sequence.	 Know how to use
created work can be	Picture.	create a computer	Knows how to	perform composite	information than	 Knows how to 	presentational or
shared with others	 Knows how to 	program using an	navigate a web	task of creating a	pictograms.	edit and combine	interactive
e.g. Purple Mash	recreate	algorithm. • Knows	search results page.	counting machine	 Knows how to use 	sounds using	software such as a
Display Boards.	Impressionism,	how to create a	 Knows how to 	using software such	yes/no questions to	2Sequence.	quiz, making
Has knowledge and	surrealism and	computer program	search the Internet	as 2Calculate	separate	 Knows how to 	improvements to it
understanding about	Pointillism using	from a given	to some degree for	(image, lock move	information.	refine composed	based on people
sharing more globally	features within	design.	answers to a quiz. •	cell, speak and	 Knows how to 	music.	feedback.
on the Internet.	2Paint a Picture.	 Knows that 	Knows the premise	count tools). •	construct a binary	 Knows how to 	 Know that data
 Knows that email is 	 Knows how to 	collision detection	of what effective	Knows how to	tree to identify items.	upload/import and	can be structured
a type of	reproduce the	is an event type in	Internet searching	copy, cut and paste	Knows how to use a	record sounds	in tables to make it
communication tool.	style of William	coding.	is	in spreadsheet	binary tree database	beyond the	useful for an
Knows how to open	Morris by using	 Knows how to 		software such as	(such as 2Question),	software	audience.
and send simple	repeating	design an algorithm		2Calculate. • Knows	to answer questions.	environment.	Know how to add
online	patterns,	that follows a timed		what totalling tools	Knows how to use a		images such as
communications in	manipulating	sequence.		are and how to use	database to answer		clipart and photos
the form of email e.g.	patterns and	 Knows that 		them. • Knows how	more complex search		to presentational
2Email (virtual email	adding multiple	different objects		to use a	questions.		software.
client).	effects in	within the coding		spreadsheet to	 Knows how to use 		 Know how to
 Knows that there is 	painting	environment have		perform	a search feature at a		collect, organise
an appropriate way	software such	different		calculations for	basic level when		and present data
to communicate with	as 2Paint a	properties.		purpose. For	trying to locate data		and information in
others in an online	picture.	 Knows that there 		example, adding	within a database		digital format.
situation.		are different events		and totalling	such as 2Investigate.		
 Knows that 		in coding and		money.			
information put		knows what some		Knows how to use			
online leaves a digital		of these events are.		some tools within a			
footprint		Knows the		spreadsheet to			





. • Knows some steps	function of buttons	support	
that can be taken to	in the coding	calculations. For	
keep personal data	environment.	example, using the	
and hardware secure.	 Knows how to 	equals tool in	
	interpret and	2Calculate to check	
	debug simple	calculations.	
	programs.	Knows how to	
		create a manual	
		block graph within	
		a spreadsheet from	
		data.	

				Year Three				
3.2 Online Safety	3.4 Touch	3.5 Email	3.3	3.8 Graphing	3.9 Presenting	3.6 Branching	3.1 Coding	3.7 Simulations
 Knows what makes 	Typing	 Know the 	Spreadsheets	 Know how to 	 Know what 	Databases	 Knows what a 	 Know that a
a safe password and	 Know typing 	different	 Know how to 	set up a graph	presentation is	 Know how to 	flowchart is and how	computer
how to keep it safe.	terminology	methods of	create tables of	with a given	and how it can	sort objects	flowcharts are used	simulation can
 Knows the main 	including	communication	data within a	number of	be used.	using just	in computer	represent real and
outcomes of not	names of	and know the	spreadsheet.	fields using	 Know how to 	YES/NO.	programming.	imaginary
keeping passwords	fingers.	strengths and	 Know how to 	graphing	add	 Know how 	 Knows how to use 	situations.
safe.	 Know the 	weaknesses of	use a	software	pages/slides,	YES/NO	a flowchart to create	 Know advantages
 Knows all the 	home, top and	his form.	spreadsheet	(2Graph).	text and shapes	questions are	a computer	and problems of
common ways the	bottom row	 Know how to 	program to	 Know how to 	to pages, and	structured and	program.	using simulations.
Internet enables	sections on a	open and	automatically	enter data for	also format	answered.	 Knows that there 	 Know how to use
people to effectively	keyboard. •	responding to	create charts	a graph.	them.	 Know how to 	are different types of	a simple simulation
communicate.	Knows the keys	email.	and graphs	 Know how to 	 Know how to 	complete a	timers used in	to try out different
 Know that a blog 	typed with left	 Know how to 	from data.	select the most	add media such	branching	coding environments	options and test
can be used to help	hand. • Knows	use an address	 Know how to 	appropriate	as images,	database.	such as 2Code.	predictions.
communicate with a	the keys typed	book to write	use various	chart type for	audio and	 Know how 	 Knows which timer 	 Begin to know
wider audience.	with right	an email.	features within	their data and	videos.	to edit and	should be used for a	how to evaluate
 Know how to 	hand.	 Know how to 	a spreadsheet	explain	 Know how to 	adapt a	given purpose.	simulations by
contribute to a blog	 Knows the 	use an email	to support	reasoning.	use effects and	branching	 Know what a 	comparing them
with clear and	correct way to	environment	solutions to	 Know how to 	features such	database.	repeat command is	with real
appropriate	sit at a	safely including	calculations.	sort data in	as animations	 Know how to 	and how to use the	simulations and
messages.	keyboard.	the importance	For example,	graphing		create a	repeat command.	





Know that some	of the draft	'more than',	software to	and slide	branching	Know how to	considering their
information held on	feature.	'less than', and	enable easier	transitions.	database	create a range of	usefulness.
websites may not be	 Know how to 	'equals'.	analysis.	 Know how 	including	programs using	
accurate or true.	add	 Know how to 		timings can	debugging it.	coding knowledge.	
 Beginning to know 	attachments to	describe a cell		help when		 Know how to run, 	
how to search the	an email.	location in a		presenting and		test and debug their	
Internet and how to	Know what	spreadsheet.		know how to		own programs.	
think critically about	CC	 Know how to 		include them in		 Know what nesting 	
the results returned.		find specified		presentations.		is and that this	
Know why there		locations in a		 Know how to 		should be	
are age restrictions		spreadsheet.		effectively		considered when	
on digital media and				present to an		debugging.	
devices.				audience using		 Know how to 	
 Know where to 				presentation		change	
turn to for help if				software.		attributes/properties	
they see						of any objects in a pr	
inappropriate							
content or have							
inappro							

				Year Four				
4.2 Online Safety	4.7 Effective	4.6 Animation	4-3	4.5 Logo	4.4 Writing for	4.8 Hardware	4.1 Coding	4.9 Making Music
 Know that 	Searching	Know how	Spreadsheets	 Know the 	different	Investigated	Begin to know	 Know the main
information put	 Know how to 	animations are	 Know what 	structure of the	purposes	Know there are	what selection	elements of music.
online leaves a digital	find information	created by	cell formatting	coding language	 Know how 	key parts that	is in computer	 Know what
footprint or trail and	from a search	hand.	is.	of Logo.	font size and	make up a	programming.	rhythm and tempo
can expand on prior	results page.	 Know how 	 Know how to 	 Know how to 	style can affect	computer.	 Know how an 	is and able to use
years' scope of this	 Know how to 	animations are	format cells as	input simple	the impact of a	 Know what 	IF statement	this knowledge to
fact.	search	created using	currency,	instructions in	text.	each of the key	works.	experiment with it.
 Know some of the 	effectively to	computers	percentage,	Logo language	 Know how to 	parts is called	 Know how to 	 Know that
ways children can	find out	Know what	decimal or	environment.	use a simulated	and the	interpret an IF	computers can be
protect themselves	information.	onion skinning	fraction.	 Know how to 	scenario to	function of	statement and	used to create music
from online identity	 Know how to 	is when	 Know how to 	create letter	produce a news	them.	therefore know	compositions
theft.	identify if an	referring to	use formula	shapes using	report and		how to create a	 Know how to
	information	animation.	wizard tools.	Logo.			program that	apply knowledge of





_	1		1	1			1
Know that	source is true	 Know that 	 Know how to 	 Know what 	campaign using	includes an IF	music to create own
information put	and reliable.	animations can	combine	the repeat	technology.	statement.	composition using
online by users could		be enhanced	spreadsheet	function in Logo		Know how to	software.
be used for identity		using features	tools to create a	is and its		use co-	
theft.		in software	purposeful	usefulness. Use		ordinates in	
 Know the main 		such as	spreadsheet	it to create		computer	
risks and benefits of		background and	e.g. a timed	shapes such as		programming.	
installing software		sounds.	times table test.	squares.		 Know what 	
and applications.		Know what	 Know how to 	 Know what 		the 'repeat	
 Know that copying 		'stop motion'	use a	procedures are		until' command	
work of others and		animation is.	spreadsheet to	and use this		is.	
presenting it as their			model a reallife	knowledge to		 Know how an 	
own is plagiarism.			situation e.g.	build		IF/ELSE	
 Knows the 			budget planner.	procedures in		statement	
consequences of			 Know how to 	Logo		works.	
plagiarism.			add a formula			 Know what a 	
 Knows appropriate 			to a cell in order			variable is in	
behaviour when			to create			programming.	
participating or			automatic			 Know how to 	
contributing to			calculations.			use variables	
collaborative online						within their	
projects for learning.						programs.	
 Know some of the 						 To know how 	
main positive and						to create a	
negative influences						playable game	
technology has on						using a block	
health and the						coding	
environment.						environment.	
 Knows the 							
importance of							
balancing screen							
time with non-screen							
time.							



media such as

code.

common letters

in use.



ring Bank Primary School							spring runk re
			Year Fiv	e			
5.2 Online Safety	5.1 Coding	5.3 Spreadsheets	5.6 3D	5.4 Databases	5.5 Games	5.7 Concept Maps	5.8 Word
Know in more detail	Begin to know how to	 Know how to 	Modelling	 Know how to 	Creator	 Know the need 	Processing
from prior learning of	simplify code in order to	use formulae	 Know what 	search for	 Know what 	for visual	Know what a word
the impact that sharing	make own programming	within a	modelling	information	some of the main	representations	processing tool is
digital content can	more efficient.	spreadsheet to	software is and	within a	elements are that	when generating	for.
have.	 Know how to create a 	convert	the skills of	database.	make a successful	and discussing	 Know how to
 Know how to think 	simple simulation using	measurements of	computer aided	Know the	game.	complex ideas.	create a word
critically about	2Code. For example, a	length and	design.	different ways to	 Know how to 	 Know the uses of 	processing
information they share	traffic light sequence.	distance.	 Know the 	search for	plan a playable	a 'concept map'.	document.
online.	 Know what 	 Know how to 	effect of moving	information in a	game.	 Know what is 	 Know how to
 Know responsibilities 	decomposition and	use more	points when	database.	 Know how to 	meant by 'concept	alter the look of
they have for	abstraction are in	advanced	designing.	 Know how to 	incorporate	map', 'stage',	text and navigate
themselves and others	computer science.	formulae	 Know how to 	add information	media such as	'nodes' and	around a
regarding online	 Know the need to start 	effectively. For	design a 3D	into a shared	sound and	'connections.'	document.
behaviour.	coding at a basic level of	example, to use	model to fit	database. • Know	images.	 Know how to 	 Know how to
 Know and have 	abstraction to remove	formulae to	certain criteria.	how to create	 Know how to 	create a concept	alter page layout
developed knowledge	superfluous details from	calculate area and	 Know how to 	own database.	manipulate media	map using software	including heading
from prior years about	own programs.	perimeter of	refine and print	 Know how to 	including adding	such as 2Connect.	and columns.
maintaining secure	 Know how to use 	shapes.	a model.	create new	animation.	 Know that 	 Know how to add
passwords.	decomposition to make	 Know how to 		records.	 Know how to 	concept maps can	and edit images.
 Know about image 	a plan of a real-life	create formulae		 Know what 	successfully	be used to retell	 Know how to add
manipulation using	situation.	that use text		fields are and	evaluate games.	stories and	features to
software and the	 Know what a function 	variables.		know how to		information.	enhance look and
advantages or	is in coding and know	 Know how to 		correctly add		 Know how to 	usability within a
disadvantages of this	how to use a function in	use tools within a		information.		present a concept	document. For
when shared online.	own program to make it	spreadsheet e.g.		 Know how to 		map to an	example:
 Know what is meant 	more efficient.	2Calculate and		phrase questions		audience.	textboxes,
by appropriate and	 Know what different 	the count tool to		so they can be			hyperlinks,
inappropriate text,	variable types are.	answer		correctly			contents pages.
photographs and	 Know what strings are 	hypotheses. For		answered using a			Know how to use
videos.	and how to use them.	example, to		search of			tables to present
 Know about the 	 Know how to set and 	answer		database.			information.
impact of sharing	change variable values in	hypotheses about					





photographs and	Know some of the			
videos online.	common ways that text			
 Know about the 	variables can be used in			
importance of citing	programming.			
content online from	 Know and use 			
others and know how	concatenation in own			
to do this.	programs.			
 Know how to select 				
keywords and search				
techniques to find				
relevant information to				
increase reliability.				

			Year S	Six			
6.2 Online Safety	6.1 Coding	6.3 Spreadsheets	6.4 Blogging	6.5 Text	6.6 Networks	6.7 Quizzing	6.8 Understanding
 Know the benefits and 	 Know how to 	 Know how to 	Know the	Adventures	Know the	 Know how to use 	Binary
risks of mobile devices	implement a game	create a	purpose of writing	 Know what a 	difference between	create activities	 Know that all
broadcasting the	which includes	spreadsheet to	a blog.	text based	the World Wide	for younger	data in a computer
location of the	timers and a score.	help answer a	 Know the 	adventure is.	Web and the	children using	is saved in the
user/device, e.g., apps	 Know what the 	mathematical	features of	 Know how to 	Internet.	software such as	computer memory
accessing location.	launch command is.	question relating	successful blog	convert a simple	 Know what a 	2DIY.	in a binary format.
 Know what secure 	Build on	to probability.	writing.	story with 2 or 3	WAN and LAN is	 Know about 	 Know that binary
sites are.	knowledge of	 Know how to 	 Know how to 	levels of decision	and the key	different question	uses only the
 Know that secure sites 	functions.	take 'copy' and	plan a blog.	making into a	differences	types within	integers 0 and 1.
will have industry	 Know how to use 	'paste' shortcuts.	 Know how to 	logical design. •	between them.	quizzing software	 Know that we
standard seals of	multiple functions	 Know how to 	write a blog.	Know how to use	 Know how a 	tools such as	can relate 0 as an
approval.	in own program.	problem solve	 Know how to 	the functionality of	school network	2Quiz.	'off' switch and 1
 Build on knowledge of 	 Know how to 	during	write a blog post.	2Create a Story	accesses the	 Know how to 	to an 'on' switch.
Digital Footprints. For	arrange code in	mathematical	 Know that the 	Adventure mode	Internet.	give and respond	 Know how to
example, know how and	multiple tabs. •	investigations	way information is	to create, test and	 Know the history 	to feedback based	count up from 0 in
why people use their	Know how to	when using	presented within a	debug using plans.	of the Internet.	on quizzes made.	binary using visual
information.	develop creativity	spreadsheets by	blog has an impact	 Know the 	 Know some of the 	 Know how to 	aids if required.
 Build on knowledge of 	when coding to	using tools such	upon the	difference	major changes in	create their own	 Know that bits
appropriate online	generate novel	as the 'Count	audience.	between a map-	technology which	grammar games. •	are related to
behaviours and how this	effects.	tool'. • Know		based game and a		Know how to use	computer storage.





can protect themselves
and others from possible
online dangers. For
example, the dangers of
promoting inappropriate
content online.
 Have greater

- knowledge of how to make more informed choices of how free time is used.
- Know the effects on individual health when having too much screen time.

- Know the different options of generating user input in 2Code.
- Know how to attribute variables to user input.
- Know the need to code for all possibilities when using user inputs.
- Know how 2Code can be used to make a text-based adventure game.
- Know with improving understanding of how they can alter existing programs to reflect their own ideas.
- Building on existing knowledge of debugging, children know how to debug more effectively.

how to create a spreadsheet to produce computational models. For example.

creating a works out discounts and final price sales. Children will

know how to use advanced formula to assist with this. Know how to use a spreadsheet to help plan

plan how to

spend pocket

money and the

effect of saving.

spreadsheet that actions. For example, create a spreadsheet to

 Know how to contribute to others' blogs.

- Know the importance of having an approval process when creating blog content or modifying it.
- Know from Online Safety knowledge that content within blogs applies. For example, children know the issues surrounding inappropriate posts and cyberbullying.

sequential storybased game.

have taken place in

their lifetime.

- Know how to use written plans to code a map-based adventure using 2Code.
- Know how to recall existing knowledge to support coding a map-based adventure game. For example, using functions, twoway selection (IF/ELSE statements) and

repetition.

multiple pieces of software to enhance a quiz. For example, creating a quiz that requires children to look up information on a

database.

 Know how to convert numbers to binary using the division by two method.

 Know how to use a converter tool to check binary conversions.