



Computing Year 5 Long Term Plan

<u>Key</u>

Predominant Areas of Computing					
Information Technology	Computer Science	Digital Literacy			

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Year	Coding (3)	Online Safety (6)	Word processing (8)	Game Creator (5)	Databases (4)	Spreadsheets (6)
5	 Begin to simplify code. 	Explain in detail how	Know what a word	•Plan a game.	Learn how to search for	Use formulae within
	 Create a playable 	accurate, safe and	processing tool is for. •	 Design and create the 	information in a	a spreadsheet to
	game.	reliable the content is	Add and edit images to a	game environment.	database.	convert
	 Understand what a 	on a webpage.	word document.	 Design and create the 	 Contribute to a class 	measurements of
	simulation is.	Secure knowledge of	 Know how to use word 	game quest.	database.	length and distance.
	 Program a simulation 	online safety rules	wrap with images and	 Finish and share the 	Create a database	Use the count tool
	using 2Code.	taught at school.	text.	game.	around a chosen topic.	to answer hypotheses
	 Know what 	•Gain a greater	 Change the look of text 	 Self and peer evaluate. 		about common letters
	decomposition and	understanding of the	within a document. • To	 Work collaboratively with 		in use.
	abstraction are in	impact that sharing	add features to a	others creating solutions to		 Use a spreadsheet
	computer science.	digital content can	document to enhance its	problems using		to model a reallife
	Take a real-life	have.	look and usability.	appropriate software.		problem.
	situation, decompose it	 Demonstrate the safe 	 Use tables within MS 			Use formulae to
	and think about the	and respectful use of	Word to present			calculate area and
	level of abstraction.	different online	information.			perimeter of shapes.
	 Understand how to 	technologies and online	Introduce children to			Create formulae that
	use friction in code	services.	templates.			use text variables.
	Begin to understand	Always relate	Consider page layout			Use a spreadsheet
	what a function is and	appropriate online	including heading and			to help plan a school
	how functions work in	behaviour to my right to	columns.			cake sale.
	code.	have personal privacy.				



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 Understand what the 	•Know how to not let		
different variables types	my mental wellbeing or		
are and how they are	others be affected by		
used differently.	use of online		
 Understand how to 	technologies and		
create a string.	services.		
Understand what	 Review sources of 		
concatenation is and	support when using		
how it works.	technology and		
•Make more complex	children's responsibility		
real-life problems into	to one another in their		
algorithms for a	online behaviour.		
program.	Know how to maintain		
Test and debug my	secure passwords.		
programs as I work.	 Understand the 		
Convert (translate)	advantages,		
algorithms that contain	disadvantages,		
sequence, selection and	permissions and		
repetition into code	purposes of altering an		
that works.	image digitally and the		
•Use sequence,	reasons for this.		
selection, repetition,	Aware of appropriate		
and some other coding	and inappropriate text,		
structures in my code	photographs and videos		
Organise my code	and the impact of		
carefully for example,	sharing these online.		
naming variables and	• Learn about how to		
using tabs. I know this	reference sources in		
will help me debug	their work.		
more efficiently.			



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•Use logical methods to identify the cause of any bug with support to identify the specific line of code.	 Search the Internet with a consideration for the reliability of the results of sources to check validity and understand the impact of incorrect information. Ensure reliability through using different methods of communication. 			
		 3D Modelling (4) Use 2Design and Make and the skills of computer aided design. Explore the effect of moving points when designing. Design a 3D Model to fit certain criteria. Refine and print a model. Make appropriate improvements to digital work I have created. 		Concept Maps (4) • Understand the need for visual representation when generating and discussing complex ideas. • Understand the uses of a 'concept map'. • Understand and use the correct vocabulary when creating a concept map. • Create a concept map. • Create a concept map. • Understand how a concept map can be used to retell



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			stories and
			information.
			• Create a
			collaborative concept
			map and present this
			to an audience.
			 Use collaborative
			modes such as within
			2Connect to work with
			others and share it.