



# **Computing Year 6 Long Term Plan**

## <u>Key</u>

Predominant Areas of Computing				
Information Technology	Digital Literacy			

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Year	Online Safety (6)	Coding (3)	Quizzing (6)	Networks (3)	Text	Spreadsheets (8)
6	<ul><li>Use filters when</li></ul>	<ul><li>Use criteria to</li></ul>	<ul><li>Create a picture-based</li></ul>	<ul> <li>Learn about what the</li> </ul>	Adventures (5)	<ul><li>Use criteria to</li></ul>
	searching for digital	evaluate the quality of	quiz for young children.	Internet consists of.	•	evaluate the quality of
	content.	my own and others	<ul> <li>Learn how to use the</li> </ul>	<ul> <li>Find out what a LAN and</li> </ul>	Consider the intended	my own and others
	<ul><li>Explain in detail how</li></ul>	digital solutions,	question types within	a WAN are.	audience carefully when I	digital solutions,
	accurate and reliable a	suggesting refinements.	2Quiz.	<ul> <li>Find out how the</li> </ul>	design and make digital	suggesting
	webpage and its	<ul><li>Design a playable</li></ul>	<ul> <li>Explore the grammar</li> </ul>	Internet is accessed in	content.	refinements.
	content is.	game with a timer and a	quizzes.	school.		<ul><li>Know what a</li></ul>
	<ul> <li>Compare a range of</li> </ul>	score.	<ul> <li>Make a quiz that</li> </ul>	<ul> <li>Research and find out</li> </ul>		spreadsheet looks like.
	digital content sources	<ul> <li>Plan and use selection</li> </ul>	requires the player to	about the age of the		<ul> <li>To navigate and</li> </ul>
	and rate them in terms	and variables.	search a database.	Internet.		enter data into cells.
	of content quality and	<ul> <li>Understand how the</li> </ul>	Make a quiz to test your	<ul> <li>Think about what the</li> </ul>		<ul> <li>Introduce some</li> </ul>
	accuracy.	launch command works.	teachers or parents.	future might hold.		basic data formulae in
	<ul> <li>Demonstrate safe and</li> </ul>	<ul> <li>Use functions and</li> </ul>		<ul><li>Explain the difference</li></ul>		Excel for percentages,
	respectful use of a	understand why they		between the internet and		averages and max and
	range of different	are useful.		the World Wide Web. (		min numbers.
	technologies and online	<ul> <li>Understand how</li> </ul>		•		<ul> <li>Demonstrate how</li> </ul>
	services.	functions are created				the use of Excel can
	•Identify more discrete	and called.				save time and effort
	inappropriate	<ul> <li>Use flowcharts to</li> </ul>				when performing
	behaviours online. For	create and debug code.				calculations.
	example, someone who	<ul> <li>Create a simulation of</li> </ul>				





may be trying to groom	a room in which devices		Use a spreadsheet
me or someone else	can be controlled.		to model a reallife
<ul><li>Use critical thinking to</li></ul>	<ul> <li>Understand how user</li> </ul>		situation.
help me stay safe	input can be used in a		<ul> <li>Demonstrate how</li> </ul>
online.	program.		Excel can make
<ul><li>Know the value of</li></ul>	<ul> <li>Understand how</li> </ul>		complex data clear by
protecting my privacy	2Code can be used to		manipulating the way
and others online.	make a text-adventure		it is presented.
<ul> <li>Identify benefits and</li> </ul>	game.		<ul> <li>Create a variety of</li> </ul>
risks of mobile devices	<ul><li>Test and debug my</li></ul>		graphs in Excel.
broadcasting the	program as I work on it		<ul> <li>Apply spreadsheet</li> </ul>
location of the	and use logical methods		skills to solving
user/device.	to identify a cause of a		problems.
<ul> <li>Identify secure sites</li> </ul>	bug.		
by looking for privacy	<ul> <li>Decompose important</li> </ul>		
seals of approval.	aspects of a		
<ul> <li>Identify the benefits</li> </ul>	programming task in a		
and risks of giving	logical way, identifying		
personal information.	appropriate coding		
<ul> <li>Review the meaning</li> </ul>	structures that would		
of a digital footprint.	work.		
<ul> <li>To have a clear idea of</li> </ul>	<ul> <li>Identify the important</li> </ul>		
appropriate online	aspects of a		
behaviour.	programming task		
<ul> <li>Begin to understand</li> </ul>	(abstraction).		
how information online	Translate algorithms		
can persist.	that include sequence,		
<ul> <li>Understand the</li> </ul>	selection and repetition		
importance of balancing	into code and nest		
game and screen time			





with other parts of their	these structures within			
lives.	each other.			
<ul> <li>Identify the positive</li> </ul>	<ul> <li>Use inputs and</li> </ul>			
and negative influences	outputs within my			
of technology on health	coded programs such as			
and the environment.	sound, movement and			
<ul> <li>Can explain in detail</li> </ul>	buttons and represent			
how accurate and	the state of an object.			
reliable a webpage and	• Interpret (understand)			
its content is.	a program in parts and			
	can make logical			
	attempts to put the			
	separate parts together			
	in an algorithm to			
	explain the program as			
	a whole.			
Coding (3)		Blogging (4)	Understanding Binary (4)	
•Use criteria to	Spreadsheets (5)	<ul><li>Design and create my</li></ul>	•Examine how whole	
evaluate the quality of	<ul><li>Use a spreadsheet to</li></ul>	own online blogs.	numbers are used as the	
my own and others	investigate the	<ul> <li>Identify the purpose of</li> </ul>	basis for representing all	
digital solutions,	probability of the	writing a blog.	types of data in digital	
suggesting refinements.	results of throwing	<ul> <li>Identify the features of</li> </ul>	systems. • Recognise that	
<ul><li>Design a playable</li></ul>	many dice.	a successful blog.	digital systems represent	
game with a timer and a	<ul> <li>Use a spreadsheet to</li> </ul>	Plan the theme and	all types of data using	
score.	calculate the discount	content for a blog.	number codes that	
<ul> <li>Plan and use selection</li> </ul>	and final prices in a sale.	<ul> <li>Understand how to</li> </ul>	ultimately are patterns of	
and variables.	Use a spreadsheet to	write a blog and a blog	1s and 0s (called binary	
<ul> <li>Understand how the</li> </ul>	plan how to spend	post.	digits, which is why they	
launch command works.	pocket money and the			





<ul> <li>Use functions and</li> </ul>	effect of saving money.	Consider the effect	are called digital	
understand why they	<ul> <li>Use a spreadsheet to</li> </ul>	upon the audience of	systems).	
are useful.	plan a school charity	changing the visual	<ul> <li>Understand that binary</li> </ul>	
<ul> <li>Understand how</li> </ul>	day to maximise the	properties of the blog.	represents numbers	
functions are created	money donated to	<ul> <li>Understand how to</li> </ul>	using 1s and 0s and these	
and called.	charity.	contribute to an existing	represent the on and off	
<ul> <li>Use flowcharts to</li> </ul>		blog.	electrical states	
create and debug code.		<ul> <li>Understand how and</li> </ul>	respectively in hardware	
• Create a simulation of		why blog posts are	and robotics.	
a room in which devices		approved by the teacher.		
can be controlled.		<ul> <li>Understand the</li> </ul>		
<ul> <li>Understand how user</li> </ul>		importance of		
input can be used in a		commenting on blogs.		
program.		Consider the intended		
<ul> <li>Understand how</li> </ul>		audience carefully when I		
2Code can be used to		design and make digital		
make a text-adventure		content		
game.				
•Test and debug my				
program as I work on it				
and use logical methods				
to identify a cause of a				
bug.				
•Decompose important				
aspects of a				
programming task in a				
logical way, identifying				
appropriate coding				
structures that would				
work.				





• Identify the important			
aspects of a			
programming task			
(abstraction).			
Translate algorithms			
that include sequence,			
selection and repetition			
into code and nest			
these structures within			
each other.			
<ul> <li>Use inputs and</li> </ul>			
outputs within my			
coded programs such as			
sound, movement and			
buttons and represent			
the state of an object.			
• Interpret (understand)			
a program in parts and			
can make logical			
attempts to put the			
separate parts together			
in an algorithm to			
explain the program as			
a whole.			