

CURRICULUM MAP (Long term plan)

SUBJECT : Computing

YEAR GROUP: 5

	Cycle 1	Cycle 2	Cycle 3
	Autumn	Spring	Summer
Substantive knowledge –	Sharing information	Selection in physical computing	Create a website
Essential knowledge &			
conceptual understanding of the	Digital literacy skills	Algorithms	Creating media
National Curriculum	Effective use of tools	Programming	Design and development
	Information technology		Effective use of tools
	Computer systems	Databases	Information technology
	Networks		Safety and security
		Data and information	
	Vector Drawing	Effective use of digital tools	
		Programming	
	Creating media		
	Design and development		
	Effective use of tools		
	Information technology	1997 - 19	
Disciplinary knowledge - what skills are practiced?	Sharing information	Selection in physical computing	Create a website
	Understand the school network	Make a sequence that includes a	Use technology safely, respectfully and
	and why it is important	variable	responsibly
	Be discerning in evaluating	Define a condition as an expression	Recognise acceptable/unacceptable
	digital content	that will be evaluated as either true	behaviour
	, s	or	and the second sec
	Use technology safely,		Select and use appropriate software to
	respectfully and responsibly	Identify that selection uses	create a website
		conditions to control the flow of a	
	Understand computer networks	sequence	Put images onto a website (and videos)
	including the internet		
	0	Identify where selection statements	Use search engines to locate information
	Vector Drawing	can be used in a program	
	, , , , , , , , , , , , , , , , , , ,		Be selective about which information to
	Use Google Drawings to create	Modify a program to include	include.
	simple drawings	selection	

		Detect and correct errors in a	
	Implement different tools into	program (debugging)	
	your vector drawings (zoom,	p. 58. 5 (25.8.5888)	
	copy and paste, shape, colour, etc.)	Databases	
		Identify records and fields in	
		databases	- ACT 3
1 C		Use sorting functions to organise	
		data in the correct way	
	0.00	Use comparison operators (<, >, and,	
		or, etc.) to locate specific data	
1001		required to answer questions	Gradien -
		Use databases to solve real world	
		problems.	
Key questions	Can I explain that computers can	Can I explain how to set up a simple	Can I compare and review existing
(What is the learning about?)	be connected together to form systems?	circuit on a computer?	websites?
		Can I understand how to use loops	Can I describe copyright law and the use of
	Can I recognise the role of computer systems in our lives?	in a program?	images?
		Can I explain count-controlled and	Can I use images and videos on a web
	Can I recognise how information is transferred over the internet?	condition-controlled loops?	page?
		Can I define the word database?	Can I include links to internal and externa
	Can I explain how sharing		sources on a website?
	information online lets people in different places work together?	Can I compare paper and computer- based databases?	
	Can I evaluate different ways of	Can I explain how to use tools on a	
	working together online?	database software?	124
	Can I identify that drawing tools		10.0
	can be used to produce different outcomes?		
Assessment	End of unit online tests. Teacher	End of unit online tests.	Teacher assessment of project (creating a
	assessment of project (creating a vector drawing).		website).



Verbal feedback used in place of			
live marking approach.			
Literacy (L), Numeracy (N),	Use of shapes in vector drawing.	Problem solving and algorithmic	Writing and presenting information
Oracy (O) opportunities	Use of technical vocabulary for computer networks.	thinking.	suitable for audience and purpose.
Cross Curricular Opportunities	English - drawing is based on the	English - 'real-life' scenario based on	History - website based on the Tudors.
	Curse of the Maya book.	Kensuke's Kingdom.	
	Art - use of vector drawing	Geography - see different countries'	10 M 10 M
	compared to artistic drawing.	flags and populations, etc.	
SMSC /	Peer support and	Resilience, initiative, aspiration.	Integrity. Aspiration, Creativity.
Character/Careers/Cultural	experimentation.		Resilience, Initiative, Confidence.
Capital	Confidence. Resilience. Initiative.		5
(personal development)	- D.A.	2	1000
Equality and Diversity	Names and characters used in	Names and characters used in	Names and characters used in
	presentations represent people	presentations represent people with	presentations represent people with
	with disabilities and different	disabilities and different ethnicities.	disabilities and different ethnicities.
	ethnicities.		
Super Curriculum	Code club	Code club	Code club
(personal development)			