

CURRICULUM MAP (Long term plan)

SUBJECT : Computing

YEAR GROUP: 6

	Cycle 1	Cycle 2	Cycle 3
	Autumn	Spring	Summer
Substantive knowledge –	Internet communication	Introduction to spreadsheets	Video production
Essential knowledge &			
conceptual understanding of the	Digital literacy skills	Data and information	Creating media
National Curriculum	Effective use of tools	Effective use of digital tools	Design and development
	Information technology	Programming	Effective use of tools
	Computer systems		Information technology
	Communication and networks	Sensing movement	Safety and security
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	Variables in games	Algorithms	
		Programming	
	Algorithms		
	Programming		
Disciplinary knowledge - what	Internet communication	Introduction to spreadsheets	Video production
skills are practiced?			
	Use search technologies	Identify columns, rows, cells, and	Use technology safely, respectfully and
	effectively	cell references in spreadsheet software	responsibly
	Appreciate how results are		Recognise acceptable/unacceptable
	selected and ranked	Use formatting techniques in a spreadsheet	behaviour
	Be discerning in evaluating		Select and use software on an iPad to
	digital content	Use basic formulas with cell	create content
		references to perform calculations in	
	Use technology safely, respectfully and responsibly	a spreadsheet (+, -, *, /)	Use editing software to improve a video
		Use the autofill tool to replicate cell	
	Understand computer networks including the internet	data	- 1100
		Explain the difference between data	
	Variables in games	and information	
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	Make a sequence that includes a variable Define a condition as an expression that will be evaluated as either true or	Use the SUM and AVERAGE function to analyse data Sensing movement Apply skills used in Variables in	
	Identify that selection uses conditions to control the flow of a sequence	games unit to a physical computing device.	
	Identify where selection statements can be used in a program Modify a program to include	3	- 52
	selection Detect and correct errors in a program (debugging)		
	programming constructs to create a game		
Key questions (What is the learning about?)	Can I identify how to use a search engine?	Can I recognise different spreadsheet software?	Can I explain what makes an effective video and identify how to record one digital device?
	Can I define how search engines are used and how they rank results?	Can I explain different formulae that can be used in spreadsheets? Can I create my own spreadsheet to	Can I apply different filming technique capture a video?
	Can I recognise and evaluate different methods of	meet a given purpose?	Can I create a storyboard?
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	communication through technology?	Can I apply a program to a controllable device (micro:bit)?	Can I consider reshooting and editing improve my video?
	Can I define the word variable and explain how they are used in programming?	Can I include variables and selection in my programs?	



	Can I design a project that uses variables?	Can I develop a program that uses inputs and outputs on a controllable device?	
Assessment Verbal feedback used in place of live marking approach.	End of unit online tests. Teacher assessment of project (creating a game on Scratch).	End of unit online tests. Teacher assessment of project (creating step counter on the micro:bit).	Teacher assessment of video using rubric.
Literacy (L),Numeracy (N), Oracy (O) opportunities	Use of technological vocabulary. Problem solving and algorithmic	Using Microsoft Excel for mathematical calculations. Problem solving and algorithmic	Writing and presenting storyboards. Understanding video related
		thinking.	terminologies.
Cross Curricular Opportunities		5	Science/Geography - videos can be linked to animals and their habitats.
SMSC / Character/Careers/Cultural Capital (personal development)	Peer support and experimentation. Confidence. Resilience. Initiative. Video Game responsibility	Resilience, initiative, aspiration.	Integrity. Aspiration, Creativity. Resilience, Initiative, Confidence.
Equality and Diversity	Names and characters used in presentations represent people with disabilities and different ethnicities.	Names and characters used in presentations represent people with disabilities and different ethnicities.	Names and characters used in presentations represent people with disabilities and different ethnicities.
Super Curriculum (personal development)	Code club	Code club	Code club

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