Year 7 Units of Work

Year 7	Autumn Term		Spring Term		Summer Term	
	1st Half Term	2nd Half Term	1st Half Term	2nd Half Term	1st Half Term	2nd Half Term
UNIT OF WORK & TOPICS	Folders/files/passwords. Introduction to Wadebridge network.	All about me. (Technology and using core computer office software)	PC basics (Computer Hardware, Networks, Data Storing)	Show time project (Media & Website Creation)	Computational Thinking Theory (Decomposition, Abstraction, Pattern Recognition, Algorithm Design)	Algorithms & Programming (Core programming concepts, Sequence, Selection and Iteration)
	Baseline test.					
CURRICULUM MAP	understand a range of ways to use technology safely, respectfully, responsibly	undertake creative projects that involve selecting, using, and combining multiple applications	understand how numbers can be represented in binary	undertake creative projects that involve selecting, using, and combining multiple applications	Design, use and evaluate computational abstractions that model the state and behaviour of real-world problems and physical systems	Design, use and evaluate computational abstractions that model the state and behaviour of real-world problems and physical systems
		create, re-use, revise and re-purpose digital artefacts for a given audience	understand the hardware and software components that make up computer systems	create, re-use, revise and re-purpose digital artefacts for a given audience	Understand several key algorithms that reflect computational thinking [for example, ones for sorting and searching]; use logical reasoning to compare the utility of alternative algorithms for the same problem	use two or more programming languages, at least one of which is textual,
			understand how instructions are stored and executed within a computer system			design and develop modular programs that use procedures or functions
ASSESSMENT	Planning/screen shots. Capability, Communication and manipulating information.	Producing PowerPoint/planning/evaluation Communication and manipulating information.	Creating a website about internet safety. Communication and collaboration, Critical evaluation.	Exploring ideas and manipulating information.	Observed skills & techniques used within lesson. Completion of task in student workbook. End of unit on-screen assessment.	Observed skills & techniques used within lesson. End of unit on-screen assessment.
	Baseline test establishing prior knowledge.	House styles/ spreadsheets/DTP	PC basics - networks/binary/ hardware/cryptography/ components/input - output/sensors	Project covering Spreadsheets/web design/Graphics.		
HOMEWORK	Literacy spellings key words.	Literacy spellings key words.	Literacy spellings key words.	Literacy spellings key words.	Literacy spellings key words.	Literacy spellings key words.