KEVICC KS3 Curriculum: S	ubject: Computing	Key terms and vocabulary.	
Year: 8 Term: 3	opic: How Computers Work (part 2)	Which words will be explicitly taught & how frequently will	
 What is the essential knowledge from remember and understand? Understand the difference between the difference between	this unit? What do students need to een system software and application	understanding be checked? How will assimilation of new vocab be checked?	
software and why both are needed		System software	
 Understand the role and tasks of an operating system 		Application software	
 Be able to name and describe different utility software 		Operating system	
 Be able to name and describe the stages of the Fetch-Execute cycle of 		Resource	
program instructions		Utility	
 Understand the factors that can affect a computer's performance 		Fetch	
 Be able to name and describe the main components of a CPU 		Decode	
 Be able to name and describe the main components of a cross Be able to convert between denary and binary numbers 		Execute	
 Be able to add binary numbers 		Cores	
 Be able to represent text in binary form using the ASCII coding system 		Cache memory	
 Understand how computers store images as bitmaps using pixels and 		Megabytes	
binary digits		Clock speed	
 Understand how samples taken of analogue sound wave and stored as binary 		Hertz	
		Character coding	
 Understand how large binary files can be compressed 		Bitmap	
 Understand the difference between lossy and lossless data compression 		Pixel	
		Binary digit	
		Sample	
What prior learning supports	How does this content link to future	Analogue Sampling rate	
understanding of this content?	learning?	Sampling resolution	
Year 7 units on How Computers	Year 9 units on Computer Systems	Compression	
Work and on Computer Graphics	and Data Representation	Lossy	
		Lossless	
Reading: Where in the unit are students	Writing: Independent writing tasks and		
supported to read complex academic text?	how they are structured	Used in context	
Students will be directed to read	Short written answers to worksheet questions	during lessons and	
age-appropriate content from BBC		understanding	
Bitesize pages and other relevant		checked in end of	
online sources		unit assessment	
Key assessments: How will students review the information learn How will feedback be seen?	ned?		
 Students will get short personalised f tasks 	eedback (mainly verbal) on individual		
 End of unit assessment in penultimat 	e lesson, with final lesson used to give		