KEVICC KS3 Curriculum:	Subject: Computer Science	Key terms and
		vocabulary.
Year: 9 Term: 1	Topic: Program Design	Which words will be explicitly taught & how frequently will
What is the essential knowledge from this unit? What do students need to remember and understand?		understanding be checked? How will assimilation of new
Understand the terms Abstraction, Decomposition and Algorithm		vocab be checked?
• Understand that Algorithms can be expressed as Flowcharts or in Pseudo Code		Abstraction
Be able to write simple programs from given pseudo code		Decomposition
Be able to write a simple user authentication program (username/password)		Algorithm
Be able to write simple programs to process numeric inputs (integer, real)		Flowchart
 Be able to write simple programs to process text inputs (string) 		Pseudo code
 Understand what selection is and how it is used in programming 		Authentication
Be able to write programs that make use of selection		Integer
Understand Boolean operators and use them in selection expressions		Real/Float
Understand what iteration is and how it is used in programming		String
Understand the difference between definite and indefinite iteration De able to write programs that make use of count controlled iteration		Selection
 Be able to write programs that make use of count controlled iteration Be able to write programs that make use of condition controlled iteration 		Boolean operator
Be able to write programs that make use of condition controlled iteration Be able to write programs that generate and use random numbers		Definite iteration
 Be able to add validation to user input to check it is accentable 		Indefinite iteration
 Understand how lists can be used to store data items for easy processing 		Validation
 Be able to write programs that process data stored in lists 		Lists
 Understand difference between high and low level programming languages 		High level language
 Understand that all programs must be translated to machine code to run 		Low level language
Understand the different types of translators and how they work		Translator
• Be able to describe the three different types of errors in computer programs		Compiler
		Interpreter
What prior learning supports	How does this content link to future	Syntax error
understanding of this content?	learning?	Runtime error
 Vear 8 unit on text-based 	 Essential learning for students going 	Runtime error
programming	on to take GCSF Computer Science	Used in context
programming	course	during lessons and
		understanding
Reading: Where in the unit are students supported to read complex academic text?	Writing: Independent writing tasks and how they are structured	checked in end of unit assessment
• Students will be directed to read	• Short written answers to worksheet	
age-appropriate content from BBC	questions	
Bitesize pages and other relevant		
online sources		
Ney assessments: How will students review the information learned?		
How will feedback be seen?		
Students will get short personalised feedback (mainly verbal) on individual		
tasks		
• End of unit assessment in penultimate lesson, with final lesson used to give		
feedback and enable corrections/improvements		