KEVICC KS3 Curriculum:	Subject: 0	Computing	Key terms and vocabulary.
Year: 8 Topic: Term: 2 Text Based Programming in Python			Which words will be explicitly taught & hov
 Understand that text-based programs must follow the syntax of the programming language exactly 			Syntax
Understand that text-based programs must be translated into machine			Source code
code before they can be run (executed)			Machine code
 Be able to write, save and run a text-based program using Python 			Variables
 Be able to write programs that store inputs as variables 			Integer
 Understand that variables can store different types of data 			String
 Be able to write programs that use selection to give alternative outputs 			Real
 Be able to write programs that can add up numbers input by the user 			Float
 Understand the difference between integers and real numbers (floats) 			Boolean
 Be able to check that only numbers have been entered (validation) 			Validation
 Be able to join two strings together (concatenate) 			Concatenate
Be able to calculate the length of a string			Selection Definite iteration
Be able to write program that checks length of passwords			Indefinite iteration
Be able to use definite and indefinite iteration in a program			List
 Understand the difference between definite and indefinite iteration 			Array
 Understand how to write a simple user authentication program 			Algorithm
 Understand how data can be stored in lists (arrays) 			Linear search
 Understand how the linear search algorithm works 			Binary search
Understand the limitations of the linear search algorithm and how the			•
binary search algorith	nm is better		Used in context
What prior learning supports		How does this content link to future	during lessons and understanding
understanding of this cont	ent?	learning?	checked in end of
 Year 7 unit on graphical Year 9 unit on program design 		Year 9 unit on program design and	unit assessment
programming algorithms			
Writing cryptography programs at			
end of year 7			
Reading: Where in the unit are students supported to read complex academic text? Writing: Independent writing tasks and how they are structured			
Students will be directed to read • Short written answers to workshe			
age-appropriate content from BBC Bitesize pages and other relevant online sources		questions	
Key assessments: How will students review the info How will feedback be seen?	rmation learn	ed?	
Students will get short pe tasks	rsonalised fo	eedback (mainly verbal) on individual	

- End of unit assessment in penultimate lesson, with final lesson used to give feedback and enable corrections/improvements