Name …….. Subject: Computer Science Year Group: 9 Target……

Programming	Selection and Iteration	Logic Circuits	On course for GCSE Grade
Can understand the concept of a variable and with a model to refer to can create variables to store numbers and perform simple calculations.	Can adapt an existing simple if statement to perform a different task. Can adapt an existing program for one type of loop (while or for) to perform an existing task.	Can remember the three different types of logic gate used by OCR exam board (AND, OR, NOT), and what they mean.	1-3
Can create variables with common data types (input function) with a model to refer to, and apply depending on task. Usually uses sensible names for variables albeit not using a convention.	Can adapt an existing nested if statement to perform a different task. Can adapt an existing program for both types of loop (while or for) to perform an existing task.	As above, and can apply this knowledge to draw simple logic circuits (one gate only) from a logic statement, as well as the reverse (write a simple logic statement from a diagram). Can write truth tables for single logic gates.	3-5
Can create variables with common data types (input function) with a model to refer to, and apply depending on task. Can use global variables when needed to get a program to function. Usually sticks to a sensible naming convention.	Can independently create a nested if statement to perform a task. Can independently write both while and for loop, and understand the difference between them.	As above, but can draw the diagram/ write the logic statement for more complex diagrams (2 gates). Can complete truth tables for diagrams with 2 logic gates.	4-6
Can independently create variables with common data types (input function), and apply depending on task. Can understand concept of and apply local and global variables and apply. Consistently uses a sensible naming convention.	As well as the above, can understand the concept of putting if statements inside loops well enough to be able to adapt an existing program to fulfil a different task.	As above, but with the level of complexity increased to 3 or more logic gates.	6-8
Can independently create variables with a variety of appropriate data types (input function), depending on task. Can understand concept of and apply local and global variables. Consistently uses a sensible naming convention.	As well as the above, be able to independently combine loops and if statements to perform a variety of different tasks, using different operators e.g. modulus operator.	As above, but can also understand additional logic gates e.g. XOR, NAND, NOR etc.	7-9