Personalised Learning Checklist

Subject: Computing

Year group: 8 – Term 2

Dear Student,

The list below is the learning you should will complete in term 2. Your teacher will use the list to check your progress during this time. It may be used for short quizzes, mini assessments or homework. Where there are gaps your lessons will focus on improving your knowledge and understanding.

Objective	My personal RAG rating (Red- do not understand, Amber- some understanding, Green- I am confident			Teacher RAG rating
Describe what algorithms and programs are and how they differ	RED	AMBER	GREEN	
Recall that a program written in a programming language needs to be translated in order to be executed by a machine	RED	AMBER	GREEN	
Write simple Python programs that display messages, assign values to variables, and receive keyboard input	RED	AMBER	GREEN	
Locate and correct common syntax errors	RED	AMBER	GREEN	
Describe the semantics of assignment statements	RED	AMBER	GREEN	
Use simple arithmetic expressions in assignment statements to calculate values	RED	AMBER	GREEN	
Receive input from the keyboard and convert it to a numerical value	RED	AMBER	GREEN	
Use relational operators to form logical expressions	RED	AMBER	GREEN	
Use binary selection (if, else statements) to control the flow of program execution	RED	AMBER	GREEN	
Generate and use random integers	RED	AMBER	GREEN	
Use multi-branch selection (if, elif, else statements) to control the flow of program execution	RED	AMBER	GREEN	
Describe how iteration (while statements) controls the flow of program execution	RED	AMBER	GREEN	
Use iteration (while loops) to control the flow of program execution	RED	AMBER	GREEN	
Use variables as counters in iterative programs	RED	AMBER	GREEN	
Combine iteration and selection to control the flow of program execution	RED	AMBER	GREEN	
Use Boolean variables as flags	RED	AMBER	GREEN	