Foxford Learning Plan

Autumn 2

Year 8 Computer Science Python

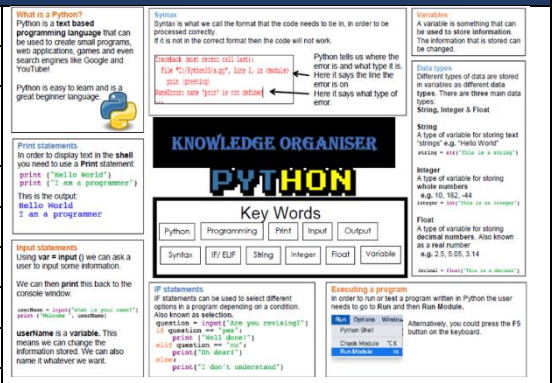
Key Vocabulary

Python	A programming language which is quite close to English!
Programming	The process of writing computer programs.
Code	The instructions that a program uses.
Sequence	Parts of the code that run-in order and the pathway of the program reads and runs very line in order.
Selection	Selects a pathway through the code based on whether a condition is true
Iteration	Code is repeated (looped), either while something is true or for a number of times
Algorithm	A set of rules/instructions to be followed by a computer system
Variable	A value that will change whilst the program is executed. (e.g. temperature, speed)
Float/Real	A Decimal Number
Integer	A whole number

Key Skills

Over the course of the topic, I will be able to: -

- Explain why variables are used
- Use text base programming to solve a problem
- Use the three programming constructs and explain their purpose.
- Use data types in a program and explain why
- **P**redict what a program will do
- **R**un a program and explain its function
- **I**nvestigate what a program does
- **M**odify a program to perform and additional task
- **M**ake my own version of a program



I will Understand

1. How to create simple programs
2. Use selection to create a program
3. Use sequence in a program
4. Use iteration in a program
5. How to use PRIMM to learn a new coding skill
6. How to find an element in an array (list)