Python

Knowledge Organiser





succes									
	Programming basics			Data Types			Key Vocabulary		
	Algorithm	sequence of steps taken to complete a task	Ι	Integer	An integer is a whole number (not a fraction) it is positive, negative, or zero.	I	Algorithm	is a sequence of steps that can be followed to complete a task	
	2 Storing data	Input data as a variable or a constant and store it.	2	Real/Float	is written with a decimal point dividing the integer	2	Sequence	A set of logical steps carried out in order.	
•	B Processing	Programs manipulate data with logical processes			and fractional parts.	3	Selection	where a decision must be	
4	Printing Data	Data can be output using the print statement.	3	Boolean	has wo possible values: true or false (yes or no)			made in programming using IF statements.	
	Programming Constructs			Character	any letter, number or symbol on a computer.	4	Iteration	repeatedly executes a section of code	
	Sequence	A set of logical steps carried out in order.	5	String	a sequence of characters, a constant or a variable.	5	Variable	is a storage location paired with a name, which contains a value.	
	Selection where a decision must be made in programming		Program Coding				Constant	a value that cannot be	
		using IF statements.	Ι	Comment	annotation in the code of a computer program	6	Constant	altered by the program during normal execution	
•	Count controlled Iteration	repeatedly executes a section of code a fixed number of times	2	Indentation	denotes code within the loop that is repeated.	7	Data types	an attribute of data which tells the computer how	
	Condition	repeatedly executes a section of code until a condition is met - or no longer met	3	Nesting	a programming construct is included within another.		the programmer int to use the data	the programmer intends to use the data	
	controlled iteration		4	Maths operators	are: +, -, /, *. (plus, minus, division, multiplication)	8	Comment	annotation in the code of a computer program	