

**Paper 2: Computational Thinking Revision List**

Topic	Revised
Define the term 'program'	
Load and run a Python program	
Change a Python program	
Save a Python program	
Use arithmetic operators and BIDMAS	
Layout code to be readable and maintainable	
Correct errors in programs	
Use variables in algorithms and programs	
Define the term 'decomposition'	
Define the term 'algorithm'	
Decompose a problem	
Define the term 'sequence' and use sequence in algorithms and program code	
Interpret error messages	
Correct errors in ordering	
Recognise primitive data types (int, real, char, string)	
Define the term 'variable'	
Create variables of all types	
Create meaningful identifier names	
Assign values to variables, with the correct data types	
View contents of memory (variable) in IDE	
Take input and create output	
Define the term 'runtime error'	
Find and fix runtime errors	
Use primitive data types (integer, real, char, string)	
Translate code into flowchart symbols	
Represent an algorithm in a flowchart	
Translate a flowchart into code	
Use string manipulation functions (index, left, right, upper, lower, isalpha, ..., etc.)	
Use relational operators in flowchart and code	
Use 'if' and 'if else' in code	
Use 'if elif else' in code	
Use flowchart decision symbol	
Use comments, white space, meaningful identifiers, and indentation in code	
Identify parts of code (variables, constants, selection, repetition)	
Define 'AND', 'NOT' and 'OR'	
Construct truth tables for Boolean operators and combinations	
Use repetition (condition-controlled loops) in algorithms	
Use repetition (condition-controlled loops) in code	
Use repetition (condition-controlled loops) in flowcharts	
Define the terms 'array' and 'list'	
Access each item in a list using indexing	
Create, append, delete items from a list	
Explain that the range() function generates a sequence of numbers	
Use iteration 'for' to process every item in a one-dimensional data structure	
Define the term 'procedure'	
Define the term 'parameter'	
Create procedures	
Define the term 'function'	
Define the term 'return value'	
Create functions	
Use 'separation of concerns'	

	Autumn Term 1
	Autumn Term 2
	Spring Term 1