Key Stage 5 Curriculum Map 2019 - 2020

Term 1

Subject: Computer Science	**Year Group: 13**
Week/Date	**Focus/Topic**
1 Sept 2nd-5th	• Baseline assessments, curriculum orientation and expectations
2 Sept 8th-12th	• Programming paradigms - both procedural and object-oriented programming paradigms.
3 Sept 15th-19th	• Programming paradigms - both procedural and object-oriented programming paradigms.

4
Sept 22nd -26th
	• Abstract data types
	  ○ Stacks
	  ○ Queues
	  ○ Lists
	  ○ Graphs

5
Sept 29th-Oct 3rd
	• Abstract data types
	  ○ Binary Tree
	  ○ Hashing/hash table
	  ○ Dictionary's
	  ○ Vectors

6 Oct 6th-10th	• Reverse Polish Notation • Programming linear & binary searches • Sorting algorithms •
7 Oct 13th -17th	• Optimisation algorithms -Dijkstra's short path algorithm • Traversals • FSM
8 Oct 22nd -24th	Mid Term Break
9 Oct 27th-Oct 31st	• Maths for regular expressions • Regular expressions

10 Nov 3rd -7th	• BNF • Big O Notation
11 Nov 10th-14th	• Turing Machine
12 Nov 17th-21st	• Number systems
13 Nov 24th-28th	• NEA
14 Dec 1st -5th	**Assessment Weeks**
15 Dec 8th-12th	
Winter Break: December 13th – January 2nd	