

Key Stage 5 Curriculum Map 2019 - 2020

Term 1

Subject: Computer Science		Year Group: 12
Week/Date	Focus/Topic	
1 Sept 2 nd -5 th	<ul style="list-style-type: none"> • Baseline assessments, curriculum orientation and expectations 	
2 Sept 8 th -12 th	<ul style="list-style-type: none"> • Fundamentals of Programming including Data Types, Programming concepts and Arithmetic operations in a programming language 	
3 Sept 15 th -19 th	<ul style="list-style-type: none"> • Programming concepts including selection, Boolean operators, iteration, built in function 	
4 Sept 22 nd -26 th	<ul style="list-style-type: none"> • Programming concepts including procedures and function, parameters, trace tables and exception handling • Mini assessment 	
5 Sept 29 th -Oct 3 rd	<ul style="list-style-type: none"> • Single and multi-dimensional arrays • External data • Fields records and files • User Defined Data Types 	
6 Oct 6 th -10 th	<ul style="list-style-type: none"> • Validation • Sorting and searching • The roles of variables • Fundamentals of Structured programming approaches 	
7 Oct 13 th -17 th	<ul style="list-style-type: none"> • Logic bit and set operators • Assessment 	
8 Oct 22 nd -24 th	Mid Term Break	
9 Oct 27 th -Oct 31 st	<ul style="list-style-type: none"> • Number Systems • Number Bases 	
10 Nov 3 rd -7 th	<ul style="list-style-type: none"> • Binary number system including floating points, two complement and fractions • ASCII & Unicode 	
11 Nov 10 th -14 th	<ul style="list-style-type: none"> • Error Checking • Bitmapped and Vector Graphics 	

	<ul style="list-style-type: none"> • Analogue and Digital audio • Assessment
12 Nov 17 th -21 st	<ul style="list-style-type: none"> • Sound Compression & Nyquist theory • Sound Synthesis • Assessment
13 Nov 24 th -28 th	<ul style="list-style-type: none"> • Encryption • Hardware and software
14 Dec 1 st -5 th	Assessment Weeks
15 Dec 8 th -12 th	
Winter Break: December 13 th – January 2 nd	