

A Level Computer Science Overview (2021-22)

Year 13						
	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 1
Learning	<p>Component 1 CPU Performance & Pipelining GPUs Stages of compilation</p> <p>Component 2 Revision of 2.1 AS content Thinking concurrently</p> <p>Component 3 Development – Project completion</p>	<p>Component 1 Linkers, Loaders & Libraries Development Methodologies Programming Paradigms</p> <p>Component 2 Use of object-oriented programming techniques Problem recognition and decomposition Use of divide and conquer</p> <p>Component 3 Development – Project completion</p>	<p>Component 1 Modes of addressing OOP Languages Encryption & Hashing Normalisation SQL Transaction Processing</p> <p>Component 2 Back tracking and data mining Heuristics and performance modelling Pipelining and visualisation Big O notation</p> <p>Component 3 Testing – Project completion</p>	<p>Component 1 Search Engine Indexing Page Rank Algorithm Floating point binary notation De Morgans Law Adder Circuits Flip Flop Circuits</p> <p>Component 2 Algorithms for linked lists, depth-first and breadth-first traversal of trees. Dijkstra’s shortest path. A* pathfinding algorithm.</p> <p>Component 3 Evaluation – Project completion</p>	<p>Component 1 A2 revision</p> <p>Component 2 A2 revision</p> <p>Component 3 Proof reading and final amendments – Project completion</p>	
Assessment	MCQ Knowledge Assessment. Half-termly Checkpoint Assessment.	MCQ Knowledge Assessment. Half-termly Checkpoint Assessment.	MCQ Knowledge Assessment. Half-termly Checkpoint Assessment.	MCQ Knowledge Assessment. Half-termly Checkpoint Assessment.	MCQ Knowledge Assessment. Half-termly Checkpoint Assessment.	