

OCR Computer Science

Exam Board	Overview	Assessment	Support available	
OCR COMPUTER SCIENCE	<p>Computer Science has computational thinking at its core; thinking that provides solutions to problems, designs systems and recognises the nature of human and machine intelligence.</p> <p>The A Level qualification consists of two examined units and one coursework unit.</p> <ul style="list-style-type: none"> Unit 1: Computer Systems (40%). Unit 2: Algorithms and Programming (40%). Unit 3: Programming Project (20%). 	<p>Year Two</p> <p>The second year includes:</p> <ul style="list-style-type: none"> Study contemporary systems architecture, databases and networks. Characteristics of contemporary processors. Software development methodologies. How data is represented, stored and exchanged between different systems. Coding, using advanced programming techniques. Merge sort, quick sort, A* and Dijkstra's algorithm will be explored. 	<p>20% Coursework</p> <p>80% Exam</p>	<ul style="list-style-type: none"> Teaching and learning support, including: suggested activities, lesson resources.
	<p>Year One</p> <p>During the first year you will:</p> <ul style="list-style-type: none"> Develop computational thinking skills, write code and learn about web technologies. Explore programming techniques. Coding, using programming techniques. Understand key standard algorithms such as insertion sort and binary search. Complete NEA project. <p>The coursework project involves using your skills to develop a solution to a problem of your own choice. Most students produce a game or a simulation.</p> <p>Practical lessons will use the Python IDE and Notepad ++</p>			<ul style="list-style-type: none"> Sample assessment materials available. Teaching and learning support, including: suggested activities, lesson resources.