

Key Stage 4 (11)	
Course title: Computer science	
Exam board: AQA	
Specification code:	
Autumn 1 (September- October)	<p>Topic Fundamentals of computer networks</p> <ul style="list-style-type: none"> • types • connection methods • topologies • protocols • security • Tcp/ip 4-layer model <p>Why now? Building on previous topics, especially cyber security, this develops pupil understanding of computer systems beyond their personal use experiences.</p>
Autumn 2 (October- December)	<p>Relational databases</p> <ul style="list-style-type: none"> • key terms • SQL <p>Algorithms</p> <ul style="list-style-type: none"> • representation • efficiency • searching • sorting <p>As pupils experience coding, it is important that they appreciate some of the fundamental systems (databases) and algorithms (search and sort) that are used in the computer systems they use. They also learn that there is not just one solution to a problem, and several ways of representing them.</p>
Spring 1 (January- February)	<p>Pseudo code/coding practice. In preparation for paper 1 algorithm questions, a major focus for this term is the different styles of representing them – flowcharts, pseudo code and python code.</p>
Spring 2 (February- March)	<p>Revision. Targeted revision activities in preparation for the summer exam series.</p>
Summer 1 (April-May)	<p>Final exam preparation. Computing papers are usually very early in the exam window.</p>