Computer Science Exam Board: AQA



Computer Science is about designing algorithms to solve problems. In this sense Computer Science is no more about computers than astronomy is about telescopes. Many challenges lie in the future for Computer Scientists to solve. This course, with its emphasis on abstract thinking, problem-solving, algorithmic and mathematical reasoning, is a good foundation for understanding these future challenges. This is an ideal course to study alongside Maths and Science subjects.

Subject specific criteria:

- Grade 5 in GCSE English
- Grade 6 in Computer Science
- Grade 6 in GCSE Mathematics or 7 if Computer Science not studied at GCSE

Skills required:

- Problem solving
- Algorithmic thinking
- Mathematical reasoning

Units studied:

- Fundamentals of Algorithms
- Fundamentals of Programming
- Fundamentals of Data Representation Theory of Computation
- Fundamentals of Computer Networks
- Fundamentals of Computer Systems

Futures:

Once students have completed their Computer Science A-Level they may further continue their studies at University or enter the job market. This Computer Science qualification is recognised by the Russell Group as really useful for degrees in Computer Science, Mathematics, Physics, Engineering, Chemistry, Medicine, Economics, Optometry and other related subjects.

Subject enrichment:

Various opportunities to enter Computational Thinking competitions throughout the year.