Computer Science 13+

Pupils will follow the OCR syllabus for GCSE covering: Computer Systems (systems architecture, memory, storage, wired and wireless networks, network topologies, protocols and layers, system security, systems software and; moral, legal, cultural and environmental concerns), Computational Thinking, Algorithms and Programming (algorithms, programming techniques, producing robust programs, computational logic, translators and facilities of languages, and; data representation) and finally completing a Programming Project (covering programming techniques, analysis, design, development and testing and evaluation and conclusions).

Importance of Computer Science

There has never been a better time to go into Computing. It is well known that there are not enough good Computer Scientists to fill jobs. It is a rewarding and diverse career path. Increasingly other areas of work and study are relying on people with Computer Science skills to develop their own subject areas. The sciences and every type of engineering are obvious examples. So even if you do not want to work in the field, it may still be the right choice for you.

What can Computer Science lead to?

Computer programmers are very much in demand. There is a huge growth in the development of apps. In this increasingly information intensive society, computer scientists are finding themselves in demand.

Future study options include: Software Engineering, Physics, Artificial Intelligence and Computer Game Design.

“I graduated from Cambridge this year and I just started work at Facebook, on the product security team. Each day I write software that protects over 1.5 billion people, and helps make the world more open and connected. I have no idea where Computer Science will take me, which for me is the most exciting thing about it!”

Former Sixth Form pupil.