



Computer Science GCSE

Examining Board: OCR

The focus in Year 9 will be on designing and creating a wide range of programs in languages such as python, javascript and HTML. We will also cover databases and SQL. All key aspects for the designing, creating and testing elements of GCSE will be covered in this first year.

In Year 10, focus shifts to the theory aspects of the course, examining the fundamentals of how computers work. This includes looking at CPU architecture, hardware devices, networking, binary logic and data representation. We will also examine the effects of increased computerisation and the ethical, legal and environmental impact of digital technologies. Practical work takes on a more extended and in-depth nature, with larger projects.

In Year 11, the emphasis is on assessment and preparation for the final exams. Previous topics will be revisited with a little additional depth and with an increasing focus on exam skills and techniques to ensure that students are ready to achieve the highest grades.

The Computer Science GCSE course is frequently updated to reflect changing technology and is subject to change over the next few years. In its present format, students will face 2 final exams, both written papers of 1.5 hours.

There are a number of extra-curricular opportunities available to students. In addition to the regular programming Clubs, GCSE students will take part in the Bebras Challenge and The Perse Coding Team Challenge and are encouraged to assist with outreach workshops run by K.E.S. for local primary schools.