Gordon's School

Computer Science Department

Introduction

The Computer Science and ICT Department consists of 1 full time teacher and 1 part-time teacher. The department deliver classes to al year groups in the school from year 7 to year 12.

At key stage 3 each student receives 1 55 minute timetabled lesson per week. The topics covered follow the Computing National Curriculum. As such, it is intended that all students acquire a number of transferrable skills in a broad range of software, both in lessons and across the curriculum. Our aim is to also equip students with the ability to use technological tools to find, explore, analyse, exchange, and present information responsibly.

Students have the option to study GCSE Computer Science at KS4 and A-Level Computer Science is an option at KS5.

BTEC/GCSE/A Level Courses

Following on from the curriculum reforms of 2015, the Gordon's Computer Science and ICT department offer the following courses:

Eduqas GCSE Computer Science

AQA GCSE Information Communication Technology (the last cohort will sit examinations in Summer 2018)

AQA AS Computer Science (to continue into A-Level Computer Science for first teaching 2018)
(NB students are still entered for an AS Level in Computer Science at the end of Year 12 even if they intend to complete the 2-year course)

We intend to launch BTEC Level 3 Extended Diploma in Information Technology in September 2018.

Examination Results

Examination results in the Computer Science and ICT department are consistently high across all specifications. These results reflect the academic nature of the Department and the high expectations placed upon both our staff and students.

ICT GCSE results:

	Gordon's	Nationally
A* - A grades	41%	20.1%
A - B grades	88%	52.2%
A - C grades	100%	66.9%

Computer Science GCSE results:

	Gordon's	Nationally
A* - A grades	65%	20.7%
A - B grades	91%	41.3%
A - C grades	100%	60.6%

Extra-curricular activities

Coding Clubs

This club specifically focuses on coding skills, looking at a variety of coding activities and languages. Students will develop coding skills in a wide variety of different programming languages such as Visual Basic, Small Basic, Kodu, App Inventor and Java Script. The group will also have the opportunity to work with Python in project based activities at a University of Surrey Coding Hub hosted at Woking High on occasions during the year. There will also be the opportunity to work with Raspberry Pi computers and a range of robotics connected to the Raspberry Pi's.

Every week a PhD Computer Scientist visits to school to assist with the Coding Club students.

The coding club also enter national competitions such as the UK Bebras and the Cyber Security Challenge.

We have run trips to Thorpe Park and Museum of Computing History at Bletchley Park. Careers talks take place for students to understand what it takes to work in the IT and computer gaming industry.

In July 2018 the school will take its first trip to San Francisco to visit Silicon Valley. His trip will incorporate visits to Google, Intel, NASA, Sanford University and Apple.