A-Level Computer Science at SCGSG
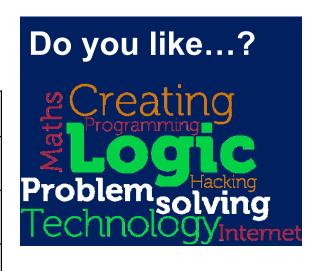
The Course

Computer Science is a practical subject where students can apply the academic principles learned in the classroom to real-world systems.

Course Content

Unit 1 Computer Systems focuses on extending students knowledge of how computers work, and the technical hardware and software that makes a computer work.

Unit 2 Algorithms and Programming: focuses on the more theoretical aspects of computing, including the study of different algorithms, efficiency, and big-O notation.

Unit 3 Computing Project: This is an internally assessed unit, with candidates required to complete programming project of their choice.

OCR H446 Component	Component Weighting
Paper 1 Computer Systems	40%
Paper 2 Algorithms and Programming	40%
Programming Project	20%

The Future

A Level Computer Science prepares you very well for a range of degrees including: Computer Science, Software Engineering, Computer Games Development, Information Systems, Forensic Computing, Computer Technologies, Network Management and Web Design and Services

Do you like...?

Maths Creating Programming Logic Problem Hacking solving Technology Internet

Where are they now?

Students, after completing the A level Computer Science course, have progressed to some of the top universities in UK such as:-

❑ BA (Hons) Computer Science at Cambridge
❑ BSc Computer Science at Durham University
❑ BSc Computer Science with Digital Technology Partnership - Degree Apprenticeship with PwC at the University of Birmingham (degree paid for by PwC).

Careers in...

Systems engineer Robotics Design Future careers electronics Cyber-Security Games Web Entrepreneur App Data analysis UX/UI Programming Consultant

• IT, programming and computer services have an ever-growing number of jobs in the UK

483,000 (2011) 558,000 (2012) 574,000 (2013) 607,000 (2014) 640,000 (2015) 674,000 (2016) 712,000 (2017)