

## AQA GCSE Computer Science

KSA will be offering AQA Computer Science GCSE specification from September 2015.

<http://www.aqa.org.uk/subjects/ict-and-computer-science/gcse/computer-science-4512>

The concepts and technologies covered in this course have the capability to engage and enthuse learners. Students choose their Controlled Assessment tasks from areas of interest to them. There are four areas to choose from:

gaming

mobile

web

more traditional PC-based programs.

### **What are the benefits of GCSE Computer Science?**

It is contemporary, relevant and rewarding. It:

prepares students for learning, working and living in an increasingly digital world

develops creativity, logical thinking, independent learning and self-evaluation

gives students a chance to design apps and software for technologies they use - mobile phones, games consoles and the internet

teaches computing which is of enormous importance to the economy and focuses on computer technologies that are relevant in the modern world

gives a thorough grounding in computing, creating opportunities for students to move on to A-levels, vocational courses, industry recognised IT qualifications and employment

also supports progress in other areas such as technology, science, engineering and the creative industries.

Unit title and Description	Assessment and Duration	Weighting
<b>Component 1 – Controlled Assessment</b> Different tasks will be provided by AQA each year. Each student should complete two tasks from a choice of four in year 11.	50 hours	60%

<p>Working independently students demonstrate their ability to code a solution to a given problem. The tasks will be set in engaging and relevant contexts, eg gaming, web, mobile phone applications.</p>		
<p><b>Component 2 – Computing fundamentals</b></p> <p>Different approaches to problem solving – skills directly transferable to Maths and Science</p> <p>How to create programmes to solve problems</p> <p>How computers work</p> <p>How networks, including the Internet do what they need to</p> <p>How computers affect society</p> <p>The importance of data in the modern world</p>	<p>Examination – 1hr 30 mins</p>	<p>40%</p>