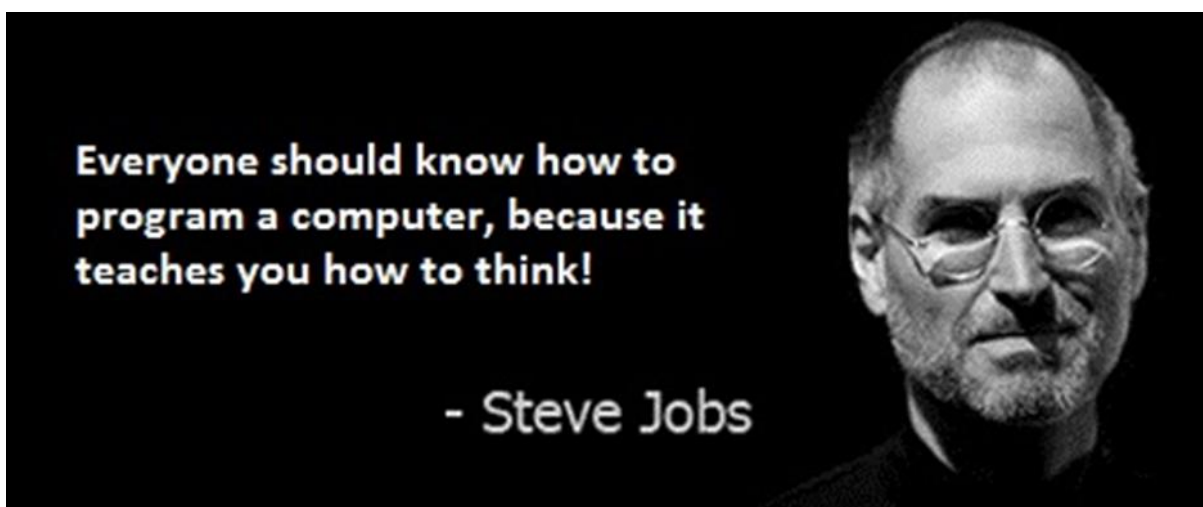


## A Level Computer Science – Subject Information Sheet



### **Why choose A Level Computer Science?**

Many problems in the sciences, engineering, health care, business and other areas can be solved effectively with computers, but finding a solution requires both computer science expertise and knowledge of the particular application domain.

A good grade in Computer Science at A level is valued by universities and employers since it requires the development of analytical thinking and problem solving skills. This course also lays an appropriate foundation for further study of Computer Science, Engineering, Physics or related subjects in higher education.

### **Educational Progression and Career Opportunities.**

What possible careers or degree subjects would A Level Computer Science be useful for?

Russell Group universities list Computer Science as a useful A Level for many degree courses including biology, chemistry, economics, engineering, geology, mathematics, materials science, medicine, physics, psychology, and sociology.

Students have gone on to study the subject at a range of Russell Group universities.

Computer Scientists are in demand and find work in many industry sectors including computer games design and software engineering.

### **What other subjects would work well with A Level Computer Science?**

Computer Science has strong connections to many other disciplines. Mathematics, Further Mathematics, Physics, and Economics combine well with Computer Science.

Students who wish to study for a Computer Science degree should combine it with A Level Mathematics as this is a pre-requisite at many universities.

### **Description of the course**

#### **Paper 1**

- On-screen exam: 2 hours 30 minutes
- 40% of A-level
- a series of short questions and write/adapt/extend programs in an Electronic Answer Document provided by the exam board AQA together with A Preliminary Material, a Skeleton Program

#### **Paper 2**

- Written exam: 2 hours 30 minutes
- 40% of A-level
- Compulsory short-answer and extended-answer questions

#### **Non-examined assessment (Coursework)**

- 75 marks
- 20% of A-level
- The non-exam assessment assesses student's ability to use the knowledge and skills gained through the course to solve or investigate a practical problem

### **Want to find out more? Here are some useful websites and resources to use.**

<https://www.aqa.org.uk/subjects/computer-science-and-it/as-and-a-level/computer-science-7516-7517/specification-at-a-glance>

[https://en.wikibooks.org/wiki/A-level\\_Computing/AQA/VB](https://en.wikibooks.org/wiki/A-level_Computing/AQA/VB)

<https://www.tutorialspoint.com/vb.net/index.htm>