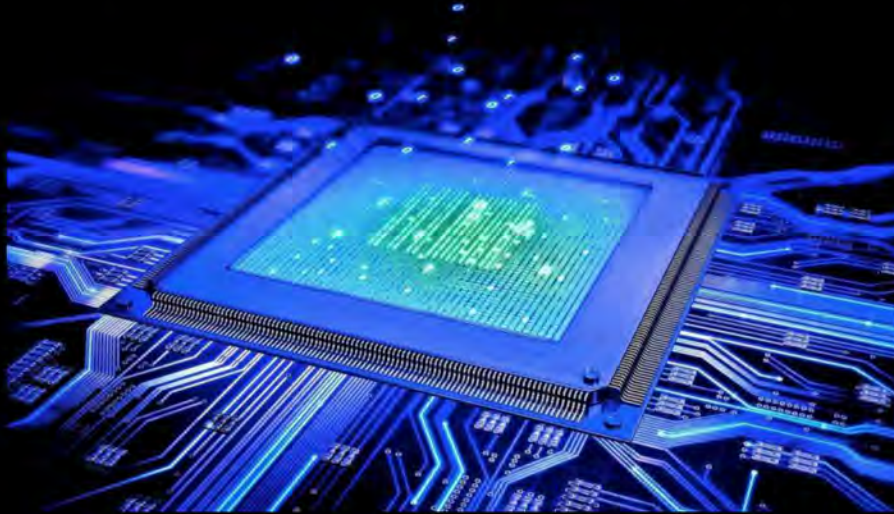


# 6<sup>th</sup> Form Courses

## COMPUTER SCIENCE



- How does Data travel across the Internet?
- How can you design and build your own Computer?
- How does Networking work?
- What to learn to develop coding skills
- Why has computing caused regulation and legislation to be written?

By studying A Level Computer Science, you will be able to answer all these questions and more!

*"It's hardware that makes a machine fast. It's software that makes a fast machine slow"*

**Craig Bruce**

# A Level Computer Science (OCR)

## What is the course like?

In A Level Computer Science, you will become an expert in Computer Architecture and networking. You will be learning about the moral and cultural issues that Computing has created. Learn to code a project and code it from scratch. If you are worried about Coding then there is structured approach to ensure you meet the requirements of the course.

## Course content

- The characteristics of contemporary processors, input, output and storage devices
- Software and software development
- Exchanging data
- Data types, data structures and algorithms
- Legal, moral, cultural and ethical issues
- Elements of computational thinking
- Problem solving and programming
- Algorithms to solve problems and standard algorithms

## Entry requirement

5 GCSEs at 9-5 including English and Maths.

## Duration

2 years.

## How will I be assessed?

80% Examination over 2 Examination Papers

20% Programming Coursework Element

## Where does it lead?

Computer Science could lead you to many different roles across society from

1. Software development
2. Network Management
3. Games Development

However as you know a strong understanding of Computing could enhance most careers.

### **Is this course suitable for me?**

Yes, if you prefer a more academic approach to learning, assessment is based on understanding, knowledge, application, analysis and evaluation. If you enjoy discussions, problem solving, independent research and reading and you have a genuine interest in business and the world economy this course could be for you.

### **Additional Information**

- Students will be learning practical skills in network administration
- Students will have practical sessions looking at Building a PC and a network from scratch

## How to Apply

- Complete and return an application form. Application forms are available from the Wellington Academy website: [www.thewellingtonacademy.org.uk](http://www.thewellingtonacademy.org.uk).
- Your completed application should be returned to Dave Bissington, Head of 6<sup>th</sup> Form, this can be done either via your tutor (if internal) or delivered to the school reception.
- Alternatively please complete an online form, found under 2021 – Applications on the 6<sup>th</sup> Form tab.
- You will have an individual course consultation, during which provisional courses will be agreed.
- The offer of the course will be conditional upon you meeting the required entry grades, any subject specific criteria and having a suitable reference from your previous school.
- Your final interview will be held immediately after you have received your GCSE results. This is when your actual offer is negotiated and confirmed.

**[www.wellingtonacademy.org.uk](http://www.wellingtonacademy.org.uk)**

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