



GCSE Computer Science – 3hr Option

Wales High School - Year 9 Subject Options

Subject Content - What will you be doing?

The course is split into two components.

Component 1: Computer Systems

A 1 hour 30 minutes written examination taken at the end of Y11 (worth 50% of the GCSE).

- Systems architecture
- Memory and storage
- Computer networks, connections and protocols
- Network security
- Systems software
- Ethical, legal, cultural and environmental impacts of digital technology



Component 2: Computational thinking, algorithms and programming

A 1 hour 30 minutes written examination taken at the end of Y11 (worth 50% of the GCSE).

- Algorithms
- Programming fundamentals
- Producing robust programs
- Boolean logic
- Programming language and Integrated Development Environments.

Exam Board: OCR

Key Points about the Subject

Computer Science is a modern, fascinating subject. The world depends on computers. In this GCSE you will learn about how computers work, the networks they use and how programming can create solutions to everyday problems and future challenges.

You must have taken Computer Science in Y9 to be able to follow this course in Y10

Computer Science is a great subject but combined with other subjects it can open up a whole world of opportunities.

Why choose Computer Science?

- Develop problem solving skills
- Learn through exploration
- Change the world
- Solve real-world problems
- Learn how to create your future
- Open the door to your future career

As part of the course you will also learn to program. Programming is a very important skill to learn.

It helps you to:

- *Break down problems effectively*
- *Solve complex problems*
- *Think logically*
- *Learn through exploration*

Who can I speak to for more information?

Mr T Cole, Mr P Brown and Mrs V Jackson