



Computer Science

KS4

Why should I study this course?

Computer Science is of enormous importance to the economy, and the role of Computer Science as a discipline itself and as an 'underpinning' subject across Science and Engineering is growing rapidly.

Computer technology continues to advance rapidly and the way that technology is consumed has also been changing at a fast pace over recent years. The growth in the use of mobile devices and web-related technologies has exploded, resulting in new challenges for employers and employees. For example, businesses today require an ever-increasing number of technologically-aware individuals. This is even more so in the gaming, mobile and web related industries.

Computer Science GCSE will help you to:

- 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

What knowledge and/or skills will you need?

Skills that you will need, or that you will be required to develop, include:

- The ability to work independently in a logical, rigorous fashion
- Good mathematical / problem-solving skills
- Good level of ICT skills
- Have 'loved' and been successful at programming in 'Scratch' (<http://scratch.mit.edu/>) or Python/Small Basic

Topics you will cover:

Component 1

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

Component 2

- Algorithms
- Programming fundamentals
- Producing robust programs
- Boolean logic
- Programming language and IDE
- Python Programming

How will I be assessed?

- Two written exams of 1 hour 30 minutes
- 80 marks each
- Equally weighted

Want more information?

Email Mrs Early searly@corfehills.net

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