

Computer Science Option

you can choose!



Why GCSE Computer Science?



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GCSE Computer Science

What will I learn?

Unit 1 - Computer systems

(how computers work and how they are used by society)

- Systems Architecture
- Memory
- Storage
- Wired and wireless networks
- Network topologies, protocols and layers
- System security
- System software
- Ethical, legal, cultural and environmental concerns

Unit 2 - Computational thinking, algorithms and programming

(code using python and making programs)

- Algorithms
- Programming techniques
- Producing robust programs
- Computational logic
- Translators and facilities of languages
- Data representation Computational thinking, algorithms and programming

Assessment Style

Written Exam Paper

1 hour and 30 minutes

80 marks

(no calculators allowed)

50% of GCSE

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1 hour and 30 minutes

80 marks

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50% of GCSE



GCSE Computer Science

Where can Computer Science take you?

Careers in Computer Science:	Higher Education/University Courses:	Post sixteen courses at SWB:
<ul style="list-style-type: none">• System/hardware Engineer• Data Analystist• Software Developer• Teacher • Computer Programmer• Network Administrator• IT Technician• Computer Games Designer• Web developer	<ul style="list-style-type: none">• Computing• Computer Science• Computer Games Design• Creating Digital Graphics• Games Programming	<ul style="list-style-type: none">• A level Computer Science• BTEC level 3 Information Technology



GCSE Computer Science

Programming software and looking at how it works

- 100% exam all done at the end
- Only 1 attempt at the exam
- LOTS of Python programming
- Helps if you are good at maths



Computer Science FAQs

- Do I get to create games?

Computer Science

- Yes!
- In computer science you will gain the opportunity to create simple games in Python – such as a guessing game.

Computer Science FAQs

- Do I get to build a computer?

Computer Science

- You do not get the opportunity to build a computer in school.
- You get the opportunity to build a virtual computer using some building mats.
- Get to physically look at computer parts and learn how they work.
- Learn the skills in lessons on how to build a computer yourself.

Computer Science FAQs

- Do I need ICT or Computer Science?

Computer Science

- Computer Science teaches you logic and problem solving.
- It gives you the skills that can be used throughout life in fixing problems within computers.
- This GCSE is useful if you want a career in computers such as games design, programming or IT technician.
- Develops skills in maintaining networks, protecting them through white hat hacking to develop cyber-security.

Computer Science FAQs

- Are there any trips?

Computer Science

- You will get the opportunity to go on a trip to Disneyland Paris to a Computing Live Event
- You get real work experience in coding robotics, augmented and virtual reality for the Disney Parks
- Get involved with the applications used to design rides at Disney Parks
- Look into the technology used in current and future theme park rides
- Get to go on the rides and enjoy Disneyland
- Get the chance to explore Paris and do some sightseeing!