



Mayfield School
being the best that we can be

FACULTY OF
BUSINESS &
COMPUTING

GCSE COMPUTER SCIENCE

EXAM BOARD

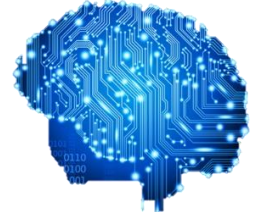
OCR

SYLLABUS NUMBER

J276

WHAT WILL I STUDY?

The Computer Science qualification is, above all else, relevant to the modern and changing world of computer science. Computer Science is a practical subject where you can apply the knowledge and skills learned in the classroom to real-world problems. It is an intensely creative subject that involves invention and excitement. The Computer Science qualification will value computational thinking, helping you to develop the skills to solve problems and design systems that do so. These skills will be the best preparation for learners who want to go on to study Computer Science at AS and A Level and beyond. The qualification will also provide a good grounding for other subject areas that require computational thinking and analytical skills.



UNIT 01:	COMPUTER SYSTEMS	UNIT 02:	COMPUTATIONAL THINKING, ALGORITHMS AND PROGRAMMING	UNIT 03:	PROGRAMMING PROJECT
	<ul style="list-style-type: none"> ✓ Systems Architecture ✓ Memory ✓ Storage ✓ Wired and wireless networks ✓ Network topologies, protocols and layers ✓ System security ✓ System software ✓ Ethical, legal, cultural and environmental concerns 		<ul style="list-style-type: none"> ✓ Algorithms ✓ Programming techniques ✓ Producing robust programs ✓ Computational logic ✓ Translators and facilities of languages ✓ Data representation 		<ul style="list-style-type: none"> ✓ Programming techniques ✓ Analysis ✓ Design ✓ Development ✓ Testing and evaluation and conclusions

ASSESSMENTS (Exam Board)

40%	80 marks 1 hour and 30 minutes Written paper (no calculators allowed)	40%	80 marks 1 hour and 30 minutes Written paper (no calculators allowed)	20%	40 marks Totalling 20 hours Non-Exam Assessment (NEA)
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WHY SHOULD I TAKE THIS SUBJECT?

The choice is absolutely yours, but here are a few reasons outlining why you should take the subject:

- ✓ If you have enjoyed the programming and control units you have experienced so far in KS3.
- ✓ If you are interested in the building blocks of computing and technology and are interested in how it all works!

POSSIBLE JOB ROUTES

- ✓ Computer Engineer
- ✓ Software engineer
- ✓ Systems analyst/designer
- ✓ Web developer
- ✓ Computer Programmer

WHO CAN I TALK TO?

- ✓ Ms Hashmi (Faculty Leader of Business and Computing)
- ✓ Mrs Nwokolo (Subject Lead for Computing)
- ✓ Mrs McBride (Teacher of ICT)
- ✓ Mrs Eissadi (Teacher of ICT)
- ✓ Mr De Bique (Teacher of Computing)

You can email the department for more information at
computing@mayfieldschool.net



USEFUL RESOURCES

- ✓ www.aqa.org.uk
- ✓ www.teach-ict.com
- ✓ www.stackoverflow.com
- ✓ www.codecademy.com
- ✓ www.docs.python.org