

# COMPUTING

Year 12

## Topics studied:

Students will study the theory aspects of the course in preparation for their examinations. In the autumn term, students will look into the characteristics of contemporary processors, input, output and storage devices. In the spring and summer terms, students look at software and software development, programming, exchanging data, data types, data structures and algorithms, and legal, moral, ethical and cultural issues. They will also learn about the elements of computational thinking and will develop their problem solving and programming skills.

## Examination Board:

Year 12 students follow the OCR A Level Computer Science specification.

## Assessment Structure:

Unit 1 – Computing Principles (50% examination 1 hr 15 mins)  
Unit 2 – Algorithms & problem solving (50% examination 1 hr 15 mins)

## Subject specific websites to support revision and independent learning:

<http://www.teach-ict.com/>  
<http://www.bbc.co.uk/education/subjects/z34k7ty>  
[www.advanced-ict.info/programming/tasks.html](http://www.advanced-ict.info/programming/tasks.html) (Learn to code)  
[www.codecademy.com/](http://www.codecademy.com/) (Learn to code)  
<http://www.yorku.ca/syichen/research/LMC/> (Little Man Computer)

## Recommended subject guides:

- OCR A Level Computer Science, by George Rouse, Jason Pitt , Sean O'Byrne. ISBN-13: 9781471839764
- My Revision Notes, OCR A level Computer Science, by George Rouse, Jason Pitt , Sean O'Byrne. ISBN-13: 9781471865831

## Additional Information:

Students are provided with an electronic course guide.

Students will be given access to past examination papers and mark schemes to support their revision and examination preparation.