

## Subject: Computer Science (AQA)

Subject Leader: Mr Richard Martin

Contact email address: [r.martin@cns-school.org](mailto:r.martin@cns-school.org)



City of Norwich School Sixth Form  
An Ormiston Academy – Excellence in all

### This course covers the following key topics:

The course is examined through two papers worth 40 % each.

Paper 1 topics: programming; problem solving; algorithms; data structures; regular languages; object-oriented & functional programming.

Paper 2 topics: data representation; hardware and software, computer organisation and architecture; communications technology; databases and the Internet.

The non-examined assessment is worth 20% of the overall course and is an opportunity to solve a real-world problem for a client of your choosing.

### Recommended

#### Textbooks:

**AQA AS and A Level  
Computer Science  
Textbook**

**PM Heathcote and  
RSU Heathcote**

**ISBN: 978-1-910523-  
07-0**

**Tackling A Level  
projects in Computer  
Science AQA 7517**

**ISBN: 978-1-910523-  
20-9**

**We love teaching this course because it is an opportunity to open up the world to our students and allow them to create technology and solve problems in new and innovative ways. We get to see that monumental change from GCSE students where everything is pre-defined for them to A-level students who choose their own direction and solve their own or their client's problems. Giving young people to problem solving and computational thinking skills to be successful in the real world is great.**

#### Our students say:

**"A-level Computer Science is better than GCSE because you go into much more depth"**

**"A-Level Computer Science will help me in the future because computers are everywhere"**

**"I chose Computer Science because it's such a valuable subject and it can lead you to all sorts of employment"**

**"I think you get a lot of technical skills out of Computer Science and how things in the world work"**

**If you love Computer  
Science, we really  
recommend you:**

**1) Check out Project  
Euler**

**2) Read  
[computer.org/computer-magazine](http://computer.org/computer-magazine)**

**3) Visit Bletchley Park**



**What future pathways are open to me if I study Computer Science?**

**Studying a Computer Science related degree**

**Working for one of the many digital and creative companies in Norwich**

**A higher apprenticeship**