



## DRAYTON MANOR HIGH SCHOOL

### YEAR 10 & 11 COURSES

Subject	Computer Science
Course Level	GCSE
Examining Body	OCR

#### What will I be studying?

The world depends on computers. In this GCSE you will learn about how computers work, the networks they use and how programming can create solutions to everyday problems and future challenges.

Computer Science is a great subject but combined with other subjects it can open up a whole world of opportunities.

- 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 career

#### What skills will I develop?

- Acquiring and applying knowledge of the use of algorithms in computer programs to solve problems
- Developing computer programs to solve problems
- Evaluating the effectiveness of computer programs/solutions and the impact of, and issues related to, the use of computer technology in society
- An understanding of current and emerging technologies, how they work and applying this knowledge in a range of contexts
- The development of project management skills

#### How will the course be structured?

##### Year 10

- System Architecture
- Memory and Storage
- Programming Fundamentals
- Algorithms
- Computer Networks
- Data Representation

##### Year 11

- Programming Fundamentals
- Ethical, legal, cultural and environmental concerns
- System Software
- Boolean logic
- Producing robust programs

#### How will I be assessed?

Examination  
Computer systems  
1 hour 30 minutes – 80 marks  
50% of final grade

Computational thinking, algorithms and programming  
1 hour 30 minutes – 80 marks  
50% of final grade

Non examined assessment  
Programming project  
Not formally assessed

If you have any further questions about taking this course, who should you speak to?

1. Your Computing Teacher
2. Head of Computing - Mr Bayeh