

# A Level COMPUTER SCIENCE

EXAMINATION BOARD: OCR

Computer systems component (01) contains the majority of the content of the specification and is assessed in a written paper recalling knowledge and understanding

Algorithms and programming component (02) relates principally to problem solving skills needed by

## Comp 1 - Computer Systems

- The characteristics of contemporary processors, input, output and storage devices
- Software and software development
- Exchanging data
- Data types, data structures and algorithms
- Legal, moral, cultural and ethical issues

## Why study this?

1. Computing plays a role in almost everything we do.
2. Expertise in computing means you can solve complex problems.
3. Computing enables you to make a positive difference in the world.
4. Computing offers many lucrative careers.
5. Computing jobs are here to stay.
6. Computing offers opportunities to be creative and innovative.



## Comp 2 - Algorithms and programming

- Elements of computational thinking
- Problem solving and programming
- Algorithms to solve problems and standard algorithms



## Assessment

Comp1 - Computer Systems:

**Exam - 40%**

Comp 2 - Algorithms and

Programming: **Exam - 40%**

Comp 3 - Programming project:

**Coursework - 20%**

## Comp 3 - Programming project

- Analysis of the problem
- Design the solution
- Developing the solution
- Evaluation

Programming project component (03) is a practical portfolio based assessment with a task that is chosen by the teacher or learner and is produced in an appropriate programming language of the learner's or teacher's choice