

## 2 The specification overview

### 2a. OCR's GCSE (9–1) in Computer Science (J276)

Learners take Component 01 and Component 02 to be awarded the OCR GCSE (9–1) in Computer Science.

#### Content Overview

#### Assessment Overview

##### Computer systems

- Systems Architecture
- Memory
- Storage
- Wired and wireless networks
- Network topologies, protocols and layers
- System security
- System software
- Ethical, legal, cultural and environmental concerns

Computer systems

(01)

80 marks

1 hour and 30 minutes

Written paper

(no calculators allowed)

50%  
of total  
GCSE

##### Computational thinking, algorithms and programming

- Algorithms \*
- Programming techniques
- Producing robust programs
- Computational logic
- Translators and facilities of languages
- Data representation

Computational thinking,  
algorithms and programming

(02)

80 marks

1 hour and 30 minutes

Written paper

(no calculators allowed)

50%  
of total  
GCSE

\* Algorithm questions are not exclusive to Component 02 and can be assessed in either component.

##### Programming Project

- Programming techniques
- Analysis
- Design
- Development
- Testing and evaluation and conclusions

20 timetabled hours

Formal requirement  
Consolidates the learning  
across the specification  
through practical activity.