WJEC GCSE

Computer Science

3500QS

Summer 2022 examinations

Unit 1	Understanding Computer Science	Friday, 27 May 2022

Advance Information

General information for students and teachers

This advance information provides the focus of the content of the Summer 2022 examination papers.

It does not apply to any other examination series.

It is intended to support revision.

It may be used at any time from the date of release.

It must not be taken into the examination.

Subject information for students and teachers

Further information about adaptations to WJEC GCSE and GCE qualifications in 2022 is available at: https://www.wjec.co.uk/home/summer-2022-adaptations/

This advance information covers Unit 1 only. There is no advance information for Unit 2 (Computational thinking and programming).

The following areas of content are suggested as key areas of focus for revision and final preparation, in relation to the Summer 2022 examination.

- 1. Hardware
    - Architecture
    - Input/output
    - Storage requirements
    - Other hardware components

- 2. Logical operations
    - Logical operators
    - Boolean logic

- 3. Communication
    - Networks

- 4. Organisation and structure of data
    - Representation of numbers
    - Representation of graphics and sound
    - Data types
    - Data structures
    - Data validation and verification

- 8. Program construction
    - Compilers, interpreters and assemblers

- 9. Security and data management
    - Data security
    - Data management
    - Network security
    - Cybersecurity

- 10. Ethical, legal and environmental impacts of digital technology on wider society
    - Environmental issues

- The aim should still be to cover all specification content in teaching and learning.

End of advance information