



Learning Journey



OCR GCSE (9-1) in COMPUTER SCIENCE (J277)

2.5 – Programming Languages and IDE

- 2.5.1 Languages
- 2.5.2 The Integrated Development Environment (IDE)



- 1.6.1 Ethical, legal, cultural and environmental impact of digital technology

1.6 – Ethical, Legal, Cultural and Environmental Impacts of IT



1.5 – Systems Software

- 1.5.1 – Systems software
- 1.5.2 Utility software

- 2.1.1 Computational thinking
- 2.1.2 Designing, creating and refining algorithms
- 2.1.3 Searching and sorting algorithms

2.1 – Algorithms

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- 1.4.1 Threats to computer systems and networks
- 1.4.2 Identifying and preventing vulnerabilities

2.3 – Producing Robust Programs

- 2.3.1 Defensive design
- 2.3.2 Testing

1.4 – Network Security



- 1.3.1 Networks and topologies
- 1.3.2 Wired and wireless networks, protocols and layers

1.3 – Computer Networks, Connections and Protocols

- 2.2.1 Programming fundamentals
- 2.2.2 Data types
- 2.2.3 Additional programming techniques

2.2 – Programming Fundamentals

- 1.1.1 Architecture of the CPU
- 1.1.2 CPU performance
- 1.1.3 Embedded systems

1.1 – Systems Architecture

1.2 – Memory and Storage

- 1.1.3 Embedded systems
- 1.2.2 Secondary storage
- 1.2.3 Units
- 1.2.4 Data storage
- 1.2.5 Compression

Boolean Operators	Logic Gate Symbol
AND (Conjunction)	
OR (Disjunction)	
NOT (Negation)	

- 2.4.1 Boolean logic
AND OR NOT

2.4 Boolean Logic

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Paper 1: J277/01 Computer Systems 50%

Paper 2: J277/02 Computational Thinking, Algorithms and Programming 50%