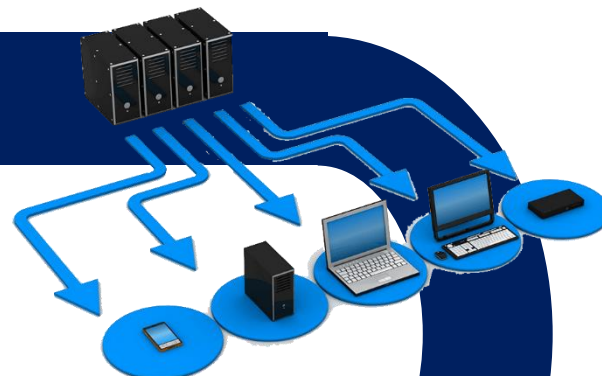# Learning Journey

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

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

1.5 – Systems Software

2.1 – Algorithms

1.5.1 – Systems software
1.5.2 Utility software

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

11

2.3 – Producing Robust Programs

1.4 – Network Security

2.3.1 Defensive design
2.3.2 Testing

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

1.3 – Computer Networks, Connections and Protocols

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

2.4.1 Boolean logic
AND OR NOT

2.4 Boolean Logic

2.2.1 Programming fundamentals
2.2.2 Data types
2.2.3 Additional programming techniques

2.2 – Programming Fundamentals

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

1.1.1 Architecture of the CPU
1.1.2 CPU performance
1.1.3 Embedded systems

1.1 – Systems Architecture

10

Paper 1: Computer Systems
Paper 2: Computational Thinking, Algorithms and Programming