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| **TITLE** | **LEARNT** | **REVISED** | **CONFIDENT** |
| 1.1.1 Architecture of the CPU |  |  |  |
| 1.1.2 CPU performance  |  |  |  |
| 1.1.3 Embedded systems  |  |  |  |
| 1.2.1 Primary storage |  |  |  |
| 1.2.2 Secondary storage  |  |  |  |
| 1.2.3 Units |  |  |  |
| 1.2.4 Data storage |  |  |  |
| 1.2.5 Compression |  |  |  |
| 1.3.1 Networks and topologies |  |  |  |
| 1.3.2 Wired and wireless networks, protocols and layers |  |  |  |
| 1.4.1 Threats to computer systems and networks |  |  |  |
| 1.4.2 Identifying and preventing vulnerabilities |  |  |  |
| 1.5.1 Operating systems |  |  |  |
| 1.5.2 Utility software |  |  |  |
| 1.6.1 Ethical, legal, cultural and environmental impact |  |  |  |
| 2.1.1 Computational thinking |  |  |  |
| 2.1.2 Designing, creating and refining algorithms |  |  |  |
| 2.1.3 Searching and sorting algorithms |  |  |  |
| 2.2.1 Programming fundamentals |  |  |  |
| 2.2.2 Data types |  |  |  |
| 2.2.3 Additional programming techniques  |  |  |  |
| 2.3.1 Defensive design  |  |  |  |
| 2.3.2 Testing  |  |  |  |
| 2.4.1 Boolean logic |  |  |  |
| 2.5.1 Languages |  |  |  |
| 2.5.2 The Integrated Development Environment (IDE) |  |  |  |

# **OCR’s GCSE (9–1) in Computer Science (J277) Specification**

**KEY**

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| Year 10 |
| Year 11 |