**Long Term Planning Framework – OCR J277 GCSE Computer Science**

**Key Stage 4: 2023-2024**

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|  | **Autumn 1** | **Autumn 2** |  |  | **Spring 1** | **Spring 2** |  |  | **Summer 1** | **Summer 2** |
| **Component 1** | | |  | **Component 1** | | |  | **Component 1** | | |
| **Year 10** | * Architecture of the CPU * CPU Performance * Embedded Systems * Primary Storage * Secondary Storage | |  | **Year 10** | * Units * Data Storage * Data Storage * Compression | |  | **Year 10** | * Networks and Topologies * Wired and Wireless Networks * Threats to computer systems * Identifying and preventing vulnerabilities | |
| **Component 2** | | |  | **Component 2** | | |  | **Component 2** | | |
| **Year 11** | * Operating Systems * Utility Software * Ethical, legal, cultural and environmental impact. | * Computational thinking * Designing, creating and refining algorithms * Searching and sorting algorithms * Programming fundamentals * Programming Practical |  | **Year 11** | * Data types * Additional programming techniques * Defensive design | * Defensive design * Testing * Boolean logic * Languages * The Integrated Development Environment (IDE) |  | **Year 11** | * Exam Preparation |  |