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

**Key Stage 4: 2023-2024**

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **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
 |  |