**Countdown Plan Year 11 – 2022:**

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| **Subject:** | Computer Science |
| **Examination adaptations for this year:** | 1. Content information has been given for paper 1, paper 2 not provided. 2. Advance Information for Summer 2022 3. <https://ocr.org.uk/images/J277%20GCSE%20Computer%20Science%20Advance%20Information_Jun2022.pdf> |

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| **Lesson Countdown** | | | |
| **Week beginning:** | **Lesson 1 (TLR)** | **Lesson 2 (JBS)** | |
| 28/02/22 | 2.2.1 Programming fundamentals  2.1.2 Designing, creating and refining algorithms | | * + 1. **Architecture of the CPU**  1. The purpose of the CPU Common 2. CPU components and their features. 3. Von Neumann architecture |
| 07/03/22 | Mock Exam | | * + 1. **Architecture of the CPU**  1. The purpose of the CPU Common 2. CPU components and their features. 3. Von Neumann architecture |
| 14/03/22 | Assess 1.1.1 (Exam Questions)  1.2.4 Data – representing images and sound | Assess 2.2.1 & 2.1.2 (Exam Questions)  1.2.1 Primary storage (Memory) | |
| 21/03/22 | Compression  Encryption | 1.2.3 Units (Units of Data Storage – Bit – Nibble – Byte e.c.t..) – Binary Conversions – Data capacity | |
| 28/03/22 | IP addressing and MAC addressing. | 1.2.4 Representing numbers and characters – Binary conversions – Adding Binary – Hex – Character Sets | |
| 04/04/22 | Algorithms Questions – Paper 2  2D Array | 1.3.1 Networks and topologies.  The hardware needed to connect stand-alone computers into a Local Area Network. | |
| 11/04/22 | Easter Holiday | | |
| 18/04/22 | Easter Holiday | | |
| 25/04/22 | Algorithms Questions – Paper 2 | 1.3.2 Wired and wireless networks, protocols and layers  Standards.  Common protocols. | |
| 02/05/22 | Timed exam questions | Modes of connection.  Factors that affect the performance of networks. | |
| 09/05/22 | Timed exam questions | 1.4.2 Identifying and preventing vulnerabilities | |
| 16/05/22 | Timed exam questions | 1.6.1 Ethical, legal, cultural and environmental impact | |