Learning Journey – Year 12 A Level CS OCR

Comp02 – 2.3

Comp02 2.2 +

Programming



**1.1**

**Year 11**

**3.1**

**2.2**

**Comp01 – Computer Systems**

**Comp02 – Algorithms and programming**

Comp01 – 1.1, 1.2, 1.3, 1.4

Comp01 – 1.4 and 1.5

Comp02 – 2.1, 2.2 and 2.3

**Business links to support real life scenarios, trips and visits offered at different points throughout the year.**

Comp01 + Comp02 Retention

Comp02 – 2.2 + Programming

NEA - Proposal

NEA

Comp01 – 1.3, 1.4 and 1.5

**Year 13**

**3.2**

**2.1**

**1.2**

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| **Term** | **Topic** | **Assessment** | **Links** |
| **1.1** | Comp01 – 1.1 The characteristics of contemporary processors, input, output and storage devices, 1.2 Software and software development, 1.3 Exchanging data, 1.4 Data types, data structures and algorithms | Comp01 1.1 and 1.2 Mini Assessment  | Maths – Logic, databases, compression, function of a processor.Literacy – Keywords and vocab, reading at length, exam technique, comprehending questions. |
| **1.2** | Comp01 – 1.3 Exchanging data, 1.4 Data types, data structures and algorithms and 1.5 Legal, moral, cultural and ethical issues | Comp01 – 1.3 Mini Assessment | Maths – Data types and structures, logic, databases, compression.Literacy – Keywords and vocab, reading at length, exam technique, comprehending questions. |
| **2.1** | Comp01 – 1.4 Data types, data structures and algorithms and 1.5 Legal, moral, cultural and ethical issuesComp02 – 2.1 Elements of computational thinking, 2.2 Problem solving and programming and 2.3 Algorithms | Comp01 – 1.4 and 1.5 Mini Assessment Comp02 2.1 Mini AssessmentMock Exam Paper 1 | Maths – Data types and structures, computational thinking (logically, concurrently, procedurally), problem solving and programming (decomposition, abstraction, recursion, debugging, sequence, divide and conquer).Literacy – Keywords and vocab, reading at length, exam technique, comprehending questions. |
| **2.2** | Comp02 – 2.2 Problem solving and programming + Programming and 2.3 Algorithms | Comp02 – 2.3 Mini AssessmentCalendared Assessment  | Maths – Algorithms, problem solving and programming (decomposition, abstraction, recursion, debugging, sequence, divide and conquer).Literacy – Keywords and vocab, reading at length, exam technique, comprehending questions. |
| **3.1** | Comp01 + Comp02 Retention Comp02 – 2.2 Problem solving and programming + ProgrammingNEA – Proposal  | Send ProposalComp02 – 2.2 Mini AssessmentMock Exam Paper 2 | Maths – Problem solving and programming (decomposition, abstraction, recursion, debugging, sequence, divide and conquer).Literacy – Keywords and vocab, reading at length, exam technique, comprehending questions. |
| **3.2** | NEA – Analysis, Design overview – success criteria, Module 1 design  | NEA Calendared Assessment  | Maths – Programming tasks, design, logic and problem solving.Literacy – Keywords and vocab, reading at length, exam technique, comprehending questions. |