**Year 11 Mock Exam Revision List**

You will sit two papers for your mock exam in total:

**Unit 1: Computer Systems – 1 hour 30 mins**

**Unit 2: Computational thinking, algorithms and programming – 1 hour 30 mins**

Algorithm questions are not exclusive to unit 2 and can be assessed in all components.

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| **Unit 1** | **Unit 2** |
| **1.1** CPU Components, Performance of a CPU, embedded systems.* 1. RAM, ROM, Flash memory

**1.3** Three tiers of storage, SSD, Suitable storage devices and storage media for a given application, the advantages and disadvantages of these, using characteristics: Capacity, Speed, Portability, Durability, Reliability, Cost, Data capacity and calculation of data capacity requirements**1.4** LAN’s, Network hardware, Factors that affect the performance of networks, virtual networks, The internet as a worldwide collection of computer networks: Domain Name Server (DNS) and hosting.**1.5** Network topologies, network protocols**1.6** System Security**1.7** Operating system: file management facilities, utility system software | **2.1**Abstraction, flow charts, pseudocode, binary and linear searches, sort algorithms: bubble sort; merge sort; insertion sort.**2.2** The use of: variables, constants, operators, inputs, outputs, assignments, Data types, Selection, Loops, Arrays, Functions**2.4** Computational Logic, Applying computing-related mathematics: +, -, /, \*, Exponentiation (^), MOD, DIV.**2.6** Binary, binary addition, denary, hexadecimal, check digit, images, sound, compression  |

Please note for your exam in the summer, I will not be able to give you a specific revision list. You will have to revise everything using your unit 1 and 2 checklist.