**Computer Science** “A Bit a day”

**3**

… “Nibble away” at your revision (20 Minute tasks)

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| **Logic Gates**  Use- <https://logic.ly/demo/> (try in browser) practice using the following gates until you know them!    ***Make a Flash card about this*** |
| **Logic gates equations**  Watch- <https://student.craigndave.org/videos/2-4-computational-logic>  and <https://student.craigndave.org/videos/ocr-gcse-slr2-4-simple-logic-diagrams>    Must: Lean the 3 symbols  ¬  **^**  **^**  Challenge: Try to draw some diagrams and write equations to match |
| **Logic Gates Truth Tables**  Watch- <https://student.craigndave.org/videos/ocr-gcse-slr2-4-truth-tables>   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | |  |  |  |  |  | | --- | --- | --- | --- | --- | | **Set the inputs up as binary for 0**  **1**  **3**  **4** | **Input 1** | **Input 2** | **AND** | **OR** | | **0** | **0** |  |  | | **0** | **1** |  |  | | **1** | **0** |  |  | | **1** | **1** |  |  | | |
| **Sorts- How to do them**  Watch-[**https://student.craigndave.org/videos/ocr-gcse-slr2-1-bubble-sort**](https://student.craigndave.org/videos/ocr-gcse-slr2-1-bubble-sort)**,** [**https://student.craigndave.org/videos/ocr-gcse-slr2-1-merge-sort**](https://student.craigndave.org/videos/ocr-gcse-slr2-1-merge-sort)**,** [**https://student.craigndave.org/videos/ocr-gcse-slr2-1-insertion-sort**](https://student.craigndave.org/videos/ocr-gcse-slr2-1-insertion-sort)    ***Task: Make a flash card for each sort, showing how it is done*** |
| **Sorts- Advantages/Disadvantages**  Re-watch-[**https://student.craigndave.org/videos/ocr-gcse-slr2-1-bubble-sort**](https://student.craigndave.org/videos/ocr-gcse-slr2-1-bubble-sort)**,** [**https://student.craigndave.org/videos/ocr-gcse-slr2-1-merge-sort**](https://student.craigndave.org/videos/ocr-gcse-slr2-1-merge-sort)**,** [**https://student.craigndave.org/videos/ocr-gcse-slr2-1-insertion-sort**](https://student.craigndave.org/videos/ocr-gcse-slr2-1-insertion-sort)    ***Task: On the back of your flashcard of how to do them, list advantages/disadvantages*** |