**Reading (VIPERS FORM)**

Use this form to record key ideas from reading to prepare for the lessons.  make sure you upload the completed form in TEAMS (Reading section)

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| Topic you prepared: | Links used: |
| Simplifying Boolean algebra |  |

Terms: Write any new technical term and their meaning, add more rows if needed.

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| **Terms** | **Meaning** |
| Double negation | If you reverse something twice it’s the same as the beginning NOT NOT A = A |
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| **What can we understand from the topic?** |
| We can simplify expressions with Boolean terms. Using multiple rules -De Morgan’s law, distribution, association, commutation, double negation. |

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| **How this topic linked to other previous topics ? What conclusions can we draw from this topic?** |
| It uses Boolean algebra operations from last lesson |

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| **What are the strengths / applications of this topic? (e.g. accuracy, steps of calculations, time or space complexity, used when …., hardware and software needs, ethical or legal issues, ….etc.)** |
| The simplification can be used to cut down operations making it easier to understand whilst keeping the same operations. |

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| **What are the limitations / drawbacks of this this topic (e.g. problems, limited accuracy, too many steps, too complex, cannot be used when, hardware requirements, ethical and legal issues, ….. etc.)** |
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| **Write a summary of the topic in 50 words** |
| AND RULES:  X and 0 = 0  X and 1 =  X and X = X  X and not X = 0  OR RULES:  X OR 0 = X  X OR 1 = 1  X OR X = X  X OR not X = 1  De Morgans law – use of AND and OR gates which keeps it simple  Not (A and B) is the same as Not A OR Not B |