**PHYSICS Unit 1 and 2 Open Investigation: Planning Stage**

**Student name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

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| **Section** | **Content** | **Maximum Mark** | **Student Mark** |
| Purpose / Aim | Explanation of Investigation  Suitable goal to investigate | 2 |  |
| Background Information | Research possible theories  Mathematical Ideas  Explanation of Investigation | 3 |  |
| Research Questions | Several appropriate research questions | 2 |  |
| Variables | Independent  Dependent  A number of Controlled | 1  1  2 |  |
| Hypothesis | Show a clear relationship between independent and dependent variables. Expect results to be quantitative rather than qualitative | 2 |  |
| Equipment | Complete List |  |  |
| Procedure | Given in steps  Steps are clear and concise  Stated variables to be controlled or measured  Diagrams or pictures included | 4 |  |
| Safety | Any Safety issues discussed  (-1 if needed and not included) |  |  |
| References | Information given that is not the student’s own work is referenced | 1 |  |
| Acknowledgement | People who helped are acknowledged  (-1 if needed and not included) |  |  |
| Recording Data | Heading  Trials  Averages  Type of graph  What will be calculated discussed and how | 4 |  |
| Time-line | A clear, comprehensive time-line is shown and is reasonable | 1 |  |
| **TOTAL** | | 23 |  |