**Physics**

**Laboratory Test**

**Name: SOLUTION Total Marks /40**

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| Section | Marks Available | Marks Received | Description |
| Aim | 1 |  | * To determine, find, observe…. (complete and includes the independent and dependent variables) |
| Hypothesis | 4 |  | * -1 mark for “I think”, “I believe”, etc. * Statement of fact before prediction (Sentence on information linking aim with relevant background information) * Independent and Dependent linked in Hypothesis * Controlled variables listed in Hypothesis |
| Prediction | 1 |  | * Embedded within Hypothesis (It is predicted…. or similar) |
| Variables | 3 |  | * Include units of measurement where applicable * (-1/2 mark for missing units of measurements) * (-1 mark environment as a controlled without explicit detail) |
| Materials list | 2 |  | * (-1 mark for no diagram) * (-1 mark for any notable equipment missed) |
| Method | 2 |  | * Makes sense (can be easily replicated from the given method). * Sequential |
| Results  (exc Graph) | 4 |  | * Raw data neatly presented in appropriate form (e.g. table). * Properly tabulated in accordance to the aim and the variables. |
| Graph | 8 |  | * Title and labels * Layout and display of data fits fully on the graph paper (not squashed or no break lines when line breaks are needed) * Plotted neatly within the axis * Independent on x-axis * Data plotted correctly * Scaled label points * Key/Legend * Line of best fit (both linear and exponential) |
| Discussion | 10 |  | * Summary of results direction * (including numerical values) * Relates results to hypothesis * Ties in variables * Discusses controlled variables and; * Discusses other unforseen variables that created errors. * Method of improving/removing errors is clear and does not include vague environmental factors or personal factors * (3 marks) Minimum 3 errors and methods of improvement mentioned. (-1 for every error not mentioned) |
| Conclusion | 5 |  | * Relates results to aim * Is concise without values * Overall outcome/summary * Links to hypothesis * Considers the extent of the errors |