**Lab Name: Terminal Velocity Lab Lab Report Check Brick**

**Student Name:**

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| **Lab Book** | |  |
|  | Title and Group Members, Date | 0 1 |
|  | Purpose statement | 0 1 |
|  | Hypothesis | 0 1 |
|  | Materials | 0 1 |
|  | Procedure: Modifications or important points about procedural steps. | 0 1 |
|  | Sketch of the experimental set-up (you may also take a picture to include in the report) | 0 1 |
|  | Observations | 0 1 |
|  | Analysis Tables | 0 1 |
| **Lab Report - Introduction** | |  |
|  | Title Page: , Student Name& Number, Date, Course Code, Lab Title | 0 1 |
|  | Abstract: Reflection about course concepts applied to this lab | ~~0 1 2~~ Not Required |
|  | Purpose: Statement of course concepts reinforced by this lab | 0 1 |
|  | Hypothesis: IF [independent] THEN [dependent] BECAUSE... | 0 1 |
|  | Materials: bullet list with quantities | 0 1 |
|  | Diagram: Labeled with Dimensions | 0 1 2 |
|  | Procedure: Numbered Steps, Past Tense Passive Voice | 0 1 2 |
|  | References: Listed in APA format at end of report | ~~0 1~~ Not Required |
| **Lab Report - Observations** | |  |
|  | Qualitative Observations, Physical Constraints, and Control Variables | 0 1 |
|  | Data & Measurements in Tabular Format with Multiple Trials | 0 1 2 |
|  | Raw Data (e.g. screen shots) provided as appropriate | 0 1 |
|  | Data Tables Numbered & Titled | 0 1 |
|  | Units shown in table column headings | 0 1 |
|  | Experimental Uncertainty shown in column headings | 0 1 |
|  | Precision Of Measurements matches experimental uncertainty | 0 1 |
| **Lab Report - Analysis** | |  |
|  | Sample Calculations for all important analysis steps | 0 1 2 |
|  | Significant Digits maintained for all calculations | 0 1 |
|  | All tables, graphs, and calculations are introduced and explained | 0 1 |
|  | Graphs properly formatted with number, title, scales, & labels | 0 1 2 |
|  | Graphs accurately plotted with Line / Curve of Best Fit | 0 1 2 Hand Drawn Required |
|  | Graphical Analysis Techniques applied to verify relationship trend "f(x)" and proportionality constant "k" of y=kf(x) | 0 1 2 |
| **Lab Report - Conclusions & Sources of Error** | |  |
|  | Conclusion related to initial purpose & hypothesis and is supported by experimental data | 0 1 2 |
|  | Conclusion compares lab results to known theories and includes percent error calculations | ~~0 1 2~~  Not Required |
|  | Systematic & Random errors identified with impact on experimental data supported by experimental error calculations | 0 1 2 |
|  | Lab Specific Discussion and Extension questions are addressed | 0 1 2 |
|  |  |  |
| **TOTAL:** | | **/40** |