**Science Inquiry Lab Report Rubric SCORING**

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| **PURPOSE** | **Possible** | **Actual** |
| Problem statement accurately defined the goal of the investigation. | 2 |  |
| Accurately identified the independent variable. | 2 |  |
| Accurately identified the dependent variable. | 2 |  |
| **\* Developed a hypothesis that addressed the problem statement.**  **Written as: “If…[independent variable]…then…[dependent variable]; because…”** | 4 |  |
| Accurately identified the controlled variables. | 2 |  |

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|  | **PROCEDURE / EXPERIMENTAL DESIGN** | **Possible** | **Actual** |  |
| The procedure was designed to solve the stated problem. | | 2 |  | |
| The procedure was described in a numbered sequence with pictures to show experiment set up. | | 2 |  | |
| The procedure had enough information to be repeated by another student. Materials listed. | | 2 |  | |
| The procedure designed was controlled. | | 2 |  | |

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|  | **DATA and DATA ANALYSIS (may be graph and / or table)** | **Possible** | **Actual** |  |
| Title of graph and/or table reflected the lab’s purpose. | | 2 |  | |
| Axes of graph and/or rows & columns of a data table were accurately labeled. | | 2 |  | |
| Graph and/or Table of the data accurately matched the experimental design. | | 2 |  | |
| **\*The information was analyzed correctly and reported accurately (graphs were to scale, data were in correct units)** | | 4 |  | |

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|  | **DISCUSSION (must be written in paragraph format)** | **Possible** | **Actual** |  |
| The purpose of the lab experiment and hypothesis was restated. | | 2 |  | |
| **\* Explained whether or not the results of the lab supported the hypothesis. Data was referenced to support this statement.** | | 4 |  | |
| **\* Made a connection from what was learned in class to the experiment. (Described the physical process that was observed during the experiment.)** | | 4 |  | |
| Determined whether the experiment performed was valid or invalid. If invalid, sources of  experimental error were listed and its effects were explained. Where there any limitations in your experiment? | | 2 |  | |
| Acknowledged that no further procedural modifications are necessary for future investigations OR appropriately described procedural modifications to reduce sources of error and limitations. | | 2 |  | |
| Identified two follow up questions (ex. “This lab made me wonder...”). | | 2 |  | |

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| **OTHER REQUIREMENTS**  Lab report must include a Conclusion section that summarizes the entire lab.  (2 points)  Names of group members must be identified at top of lab report. (2 points) | **SCORING GUIDE**  2 = Report completely met indicator.  1 = Report mostly met indicator, with errors.  0 = Indicator was omitted.  \* = Score is weighted as double | TOTAL  50 points | TOTAL |