**Science Fair Rubric**

Title of Report \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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| --- | --- | --- | --- | --- | --- |
|  | Not Acceptable  1 | Below  Expectations 2 | Meets  Expectations 3 | Exceeds Expectations 4 | Score |
| Problem | Identified a question that could not be tested or one that did not merit investigation. | Identified a question which could be investigated. | Identified a question which was interesting to the student and which could be investigated. | Independently identified a question which was interesting to the student and which could be investigated. |  |
| Data Collection | Does not answer any questions suggested in the report. Data was collected only once and assistance was needed to clearly summarize what was discovered. | Data was collected more than one time and assistance was needed to clearly summarize what was discovered. | Data was collected more than one time. It was summarized, independently, in a way that clearly describes what was discovered. | Data was collected several times. It was summarized, independently, in a way that clearly describes what was discovered. |  |
| Variables | Assistance needed to identify and define almost all the variables. | With assistance, identified and clearly defined which variables were going to be changed (independent variables) and which were going to be measured (dependent variables). | Independently identified which variables were going to be changed (independent variables) and which were going to be measured (dependent variables). Some feedback was needed to clearly define the variables. | Independently identified and clearly defined which variables were going to be changed (independent variables) and which were going to be measured (dependent variables). |  |
| Description of Procedures | Procedures that were outlined were seriously incomplete or not sequential, even after adult feedback had been given. | Procedures were outlined in a step-by-step fashion, but had 1 or 2 gaps that require explanation even after adult feedback had been given. | Procedures were outlined in a step-by-step fashion that could be followed by anyone without additional explanations. Some adult help was needed to accomplish this. | Procedures were outlined in a step-by-step fashion that could be followed by anyone without additional explanations. No adult help was needed to accomplish this. |  |
| Hypothesis Development | Needed assistance to develop a hypothesis. | Independently developed a hypothesis somewhat substantiated by a problem statement | Independently developed a hypothesis somewhat substantiated by a problem statement supported by reason | Independently developed a hypothesis well-substantiated by a problem statement supported by a reason |  |
| Graph and Data Table | Inaccurate representation of the data in graphs or tables with several mistakes | Inaccurate representation of the data in graphs or tables with few mistakes | Accurate representation of the data in tables and/or graphs. Graphs and tables are labeled and titled. | Professional looking and accurate representation of the data in tables and graphs. Graphs and tables are labeled and titled. |  |
| Display Board | The display seemed incomplete or chaotic with no clear plan. Many labels were missing or incorrect. | Each section clearly served to illustrate some aspect of the experiment. Most items were correctly labeled. | Each section clearly served to illustrate some aspect of the experiment. Most items were neatly and correctly labeled. | Each section clearly served to illustrate some aspect of the experiment. All items were neatly and correctly labeled. |  |
| Summary Conclusion | No conclusion was apparent OR important details were overlooked. | Student provided a conclusion with some reference to the data and the hypothesis statement(s). | Student provided a somewhat detailed conclusion clearly based on the data and related to the hypothesis statement(s). | Student provided a detailed conclusion clearly based on the data and related to previous research findings and the hypothesis statement(s). |  |
| Journal/Lab Notebook | Notes rarely taken and of little use to experiment | Notes are dated and taken occasionally but accuracy might be questionable | Notes are dated, accurate, and taken occasionally | Notes are dated, clear, accurate, and taken regularly |  |
|  |  |  |  | Total |  |