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| CATEGORY | **4** | **3** | **2** | **1** |
| **Problem**  Science Fair Rubric | Identified an advanced problem that could be investigated which was clear and focused on one idea | Identified a proficient problem that could be investigated which was clear and focused on one idea | Identified a basic problem that could be investigated which was clear and focused on one idea | Identified a problem that could not be investigated. |
| **Hypothesis** | Hypothesis is stated as a complete sentence that directly answers the question of the problem and is explained | Hypothesis is a complete idea that answers the question of the problem, but is not written as a complete sentence or is not explained | Hypothesis is  unclear | Hypothesis does not answer the question of the problem |
| **Variables** | All variables (3 important, distinct controlled variables, the independent variable, and the responding variable) were correctly identified and clear | 4 variables were correctly identified and were somewhat clear | 3 variables were correctly identified or variables were not relevant to the experiment | 1 or 2 variables were correctly identified, but variables were not clear or were not relevant to the experiment |
|  | **8** | **6** | **4** | **2** |
| **Materials / Procedure** | Procedure was clear, detailed, sequential, and outlined in a step-by-step fashion that could be followed by anyone without additional explanations. A complete materials list, including quantities/sizes of materials used, was identified | Procedure was clear, sequential, and outlined in a step-by-step fashion, but needed minor clarification or the materials list was not complete | Procedure was outlined in a step-by-step fashion, but had 1 or 2 gaps that require explanation or was not sequential. The materials list was missing materials needed to complete the experiment | Procedure was incomplete, not sequential, missing many details, and would require much explanation for someone to complete the experiment. The materials list was incomplete or missing |
| **Observations / Data** | Data was collected accurately, clearly identified with labels, and included 3 tests or at least 10 test subjects for reliability. Data was organized into tables or graphs, or results were shown using complete descriptions, illustrations, or photographs | Data collected was organized adequately, but was not clearly identified. Data was organized into tables or graphs, or results were shown using complete descriptions, illustrations, or photographs. Multiple tests or test subjects were not used | Data was organized, but was not clearly identified. Data had discrepancies | Data was not organized, was not clear, and was not accurate |
| **Conclusion**  Total:  \_\_\_\_\_\_\_\_ / 44 | Conclusion was written using complete sentences and clearly restates the hypothesis, identifies if the hypothesis was correct or incorrect, and explains how findings relate to the real world | Conclusion is written using complete sentences and includes some good insight, but does not explain all of the required components in detail | Conclusion does not address all required components and/or does not explain or expand on the findings of the experiment | Conclusion does not accurately reflect the data from the experiment and/or does not relate back to the hypothesis |
| **Display** | Each section in the packet is displayed on the board. It is well organized and free of grammatical, spelling, capitalization, or punctuation errors. The display is neatly done and of excellent quality. | Each section in the packet is displayed on the board. There are a few grammatical, spelling, capitalization, or punctuation errors. The display is neatly done and of good quality. | 1-2 sections of the packet are not represented on the display board. The display is poor quality and not neatly done. | The display seemed incomplete or poorly done. Many sections were missing or incorrect. |