**2016 Science Fair Sample Scoring Rubric**

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| Student: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Grade: \_\_\_\_\_\_\_ Teacher: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  Project Title: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | | |
| **Problem/Question** | | |
| 5 – The student has a well written, testable problem/question that is original and/or related to real-world topics. | 3 – The student has a well written and testable problem/question but doesn’t demonstrate originality or significant real-world context. | 1 – The student’s problem/question is unclear and the question is not testable. The student’s project may only be a scientific model rather than an experiment with controlled conditions. |
| **Hypothesis** | | |
| 5 – The hypothesis is testable and written in a correct format (if-then-because). The hypothesis is original and the student did not already know the answer. | 3 – The hypothesis is present and testable but is not written in the correct format. | 1 – The hypothesis is incomplete and/or not testable. |
| **Background Information** | | |
| 5 – A least 2-3 sources have been researched and aligned to the topic. A summary of the research is included. | 3 – Research is insufficient or not aligned. Research is not summarized. | 1 – The topic was not researched or included in the project. |
| **Materials** | | |
| 5 – All materials are listed with quantities. | 3 – All of the materials are listed but quantities are not included. | 1 – The material list is incomplete. |
| **Variables** | | |
| 5 – The outcome, test, and controlled variables are all identified correctly. | 3 – Not all variables are listed and identified correctly. | 1 – Variables are not included or identified correctly. |
| **Procedure** | | |
| 5 – All steps are clearly written and are easily replicated with at least three trials. | 3 – Not all steps are fully explained or there are less than three trials of evidence. | 1 – Steps are unclear and incomplete. |
| **Data Analysis & Results** | | |
| 5 – Data is clearly labeled showing all three trials and results are explained and linked to data. Correct graph format is used. | 3 – Data and results are not recorded or linked properly. Trials are not identified or labeled. An incorrect graph format was used. | 1 – Data is incorrect; trials are not labeled and not linked to results. |
| **Conclusion** | | |
| 5 – The conclusion fully connects the elements of the purpose, background information, data analysis and results. All questions have been addressed. | 3 – The conclusion does not address all questions. | 1 – Only results have been displaced; there is no evidence of most questions being addressed. |
| **Citation of Resources** | | |
| 5 – At least 2-3 sources have been researched and identified in the project. | 3 – Less than 2 resources have been used or not cited. | 1 – There is no evidence of resources being credited for the student’s research. |
| **Bonus Points** | | |
| 2 – The student provides recommendations related to the project and includes ideas for a redesign. The student proposes new questions for further investigation. | 1 – The student makes an attempt to provide recommendations that are related to the project. The student makes an attempt to describe an opportunity to redesign the experiment. | 0 – No recommendations or ideas for redesign have been made. |
| **Scoring/Comments** | | |
| **Score: \_\_\_\_\_\_/47 = \_\_\_\_\_% Comments:** | | |