**http://www.k12.hi.us/~mstlaure/images/chemist_sm.gifScience Project Scientific Method Rubrichttp://www.k12.hi.us/~mstlaure/images/chemist_sm.gif**

|  |  |  |  |
| --- | --- | --- | --- |
| **Project Title:** | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |  |  |
| **Student:** | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | | |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Objectives** | **Outstanding Work** | **Acceptable Work** | **Needs Some Work** | **Needs Lots of Work** |
| **Question** | 4 – Question is testable and applicable to life (Why does it matter?) | 3 – Question is testable. | 2 – Question is not testable. (Project is more of a demonstration or project.) | 1 – Question is absent. |
|  |  |  |  |  |
| **Hypothesis** | 4 – Hypothesis is worded correctly. (If… then.. statement) | 3 – Hypothesis is worded as an opinion. (I think…) | 2 – Hypothesis is a statement, but is not related to the experiment. | 1 – Hypothesis is absent. |
|  |  |  |  |  |
| **Variables** | 4 – Independent, dependent variables, and 3 constants are labelled correctly. | 3 – One of the following factors is missing or incorrect: independent, dependent variables, and 3 constants. | 2 - Two of the following factors are missing or incorrect: independent, dependent variables, and 3 constants. | 1 - Independent, dependent variables, and 3 constants are absent or contain more than 2 errors. |
|  |  |  |  |  |
| **Materials** | 4 – All materials are listed with specific amounts necessary. | 3 - All materials are listed without specific amounts necessary. | 2 – Some materials are missing. | 1 – Materials are absent. |
| **Procedures** | 4 – Procedures are organized in a logical, step-by-step manner, and can easily be followed by others. | 3 - Procedures are organized in a logical, step-by-step manner, but are not easily followed because steps are missing. | 2 - Procedures are unorganized and cannot easily be followed by others. | 1 – Procedures are absent. |
| **Data** | 4 – Data is presented in an organized table, graph, etc. with proper labels and logical data. | 3 - Data is presented in an organized table, graph, etc. without proper labels and/or logical data. | 2 – Data is unorganized, missing a table, graph, etc. | 1 – Data is absent. |
| **Results** | 4 – Results simply and clearly state what happened in the experiment and are supported by data. | 3 - Results clearly state what happened in the experiment with too much detail supported by data. | 2 – Results make a statement that is not supported by data. | 1 – Results are absent. |
| **Conclusions** | 4 – Conclusion reexamines the hypothesis, restates the results making implications for life, and looks to future research. | 3 – Conclusion is missing 1 of the following factors: reexamines the hypothesis, restates the results making implications for life, and looks to future research. | 2 - Conclusion is missing 2 of the following factors: reexamines the hypothesis, restates the results making implications for life, and looks to future research. | 1 – Conclusion is absent or contains more than 2 errors. |