**Lab Rubric**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **TIPS** | **Level 1** | **Level 2** | **Level 3** | Level 4 |
| **Related Theory****\*\*\*\*** | Shows limited understanding of connections to the problem | Shows some understanding of connections to the problem | Shows considerable understanding of connections to the problem | Shows thorough understanding of connections to the problem |
| Hypothesis and Conclusion**\*\*\*** | Hypothesis stated, no supportConclusion made, no support | Hypothesis stated, some supportConclusion made, with some reference to lab  | Hypothesis stated, considerable supportConclusion made with evidence from lab and responds to hypothesis | Hypothesis stated with a high degree of support Conclusion made with strong support from lab and responds effectively to the hypothesis |
| Problem, Materials and Procedure**\*** | MANY pieces missing | A few things are missing or wrong  | A couple things wrong | Everything is exact – problem stated, material list correct and procedure accurate  |
| Observations* Tables
* Graphs

**\*\*** | Table format shows some errors and the use of scientific terminology shows limited accuracy and effectiveness | Table format shows few errors and/or uses scientific terminology with some accuracy and effectiveness | Proper table format and uses scientific terminology with considerable accuracy and effectiveness | Proper table format and uses scientific terminology with a high degree of accuracy and effectiveness |
| **Analysis****Sources of Error****Calculations****\*\*\*\*\*** | Shows limited understanding of connections to the material investigated | Shows some understanding of connections to the material investigated | Shows considerable understanding of connections in familiar and unfamiliar contexts | Shows thorough understanding of connections in familiar and unfamiliar contexts |
| General Presentation |  |  |  |  |

**Lab Rubric**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **TIPS** | **Level 1** | **Level 2** | **Level 3** | Level 4 |
| **Related Theory****\*\*\*\*** | Shows limited understanding of connections to the problem | Shows some understanding of connections to the problem | Shows considerable understanding of connections to the problem | Shows thorough understanding of connections to the problem |
| Hypothesis and Conclusion**\*\*\*** | Hypothesis stated, no supportConclusion made, no support | Hypothesis stated, some supportConclusion made, with some reference to lab  | Hypothesis stated, considerable supportConclusion made with evidence from lab and responds to hypothesis | Hypothesis stated with a high degree of support Conclusion made with strong support from lab and responds effectively to the hypothesis |
| Problem, Materials and Procedure**\*** | MANY pieces missing | A few things are missing or wrong  | A couple things wrong | Everything is exact – problem stated, material list correct and procedure accurate  |
| Observations* Tables
* Graphs

**\*\*** | Table format shows some errors and the use of scientific terminology shows limited accuracy and effectiveness | Table format shows few errors and/or uses scientific terminology with some accuracy and effectiveness | Proper table format and uses scientific terminology with considerable accuracy and effectiveness | Proper table format and uses scientific terminology with a high degree of accuracy and effectiveness |
| **Analysis****Sources of Error****Calculations****\*\*\*\*\*** | Shows limited understanding of connections to the material investigated | Shows some understanding of connections to the material investigated | Shows considerable understanding of connections in familiar and unfamiliar contexts | Shows thorough understanding of connections in familiar and unfamiliar contexts |
| General Presentation |  |  |  |  |