Density Lab Report Grading Rubric

1. **– Novice –** Incomplete or no correct criteria.
2. **– Developing –** All criteria are present. Some criteria are correct, but some are incorrect.
3. **– Proficient –** All criteria are present and correct.

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| **Format** | **0** | **1** | **2** |
| Lab report is typed  Sections are labeled:   * Title, Purpose, Materials, Procedure, Data, Graph, Calculations, Conclusion |  |  |  |
| **Procedure** | **0** | **1** | **2** |
| All steps are included |  |  |  |
| Steps are clear, concise and reproducible (someone else could perform the lab from the written procedure) |  |  |  |
| **Data** | **0** | **1** | **2** |
| Measurements are written in a table  Data table is labeled with the types of measurement that were made  Data table includes units |  |  |  |
| Measurements are recorded using the correct number of significant figures |  |  |  |
| **Graph** | **0** | **1** | **2** |
| Graph has a title and axes are labeled with proper units  Proper scales are used for the x-axis and y-axis  Data is correctly graphed |  |  |  |
| Relationship between mass and volume is correctly identified as either direct or inverse |  |  |  |
| **Calculations** | **0** | **1** | **2** |
| **Density Sample 1**   * All work is shown for the density calculation * Correct units are used in the density calculation * Density final answer is boxed/circled |  |  |  |
| * Density is calculated correctly |  |  |  |
| * Density answer is rounded to the correct number of significant figures * Density answer contains the correct units |  |  |  |
| **Density Sample 2**   * All work is shown for the density calculation * Correct units are used in the density calculation * Density final answer is boxed/circled |  |  |  |
| * Density is calculated correctly |  |  |  |
| * Density answer is rounded to the correct number of significant figures * Density answer contains the correct units |  |  |  |
| **Calculations Continued** | **0** | **1** | **2** |
| **Density Sample 3**   * All work is shown for the density calculation * Correct units are used in the density calculation * Density final answer is boxed/circled |  |  |  |
| * Density is calculated correctly |  |  |  |
| * Density answer is rounded to the correct number of significant figures * Density answer contains the correct units |  |  |  |
| **Density Average**   * All work is shown * Correct units are used * The average final answer is boxed/circled |  |  |  |
| * The average is calculated correctly |  |  |  |
| * The average is rounded to the correct number of significant figures * The average contains the correct units |  |  |  |
| **Percent Error**   * All work is shown * Correct units are used * Percent error final answer is boxed/circled |  |  |  |
| * Percent error is calculated correctly |  |  |  |
| * Percent error is rounded to the correct number of significant figures * Percent error contains the correct unit |  |  |  |
| **Conclusion** | **0** | **1** | **2** |
| Possible sources of error are identified |  |  |  |
| The effect(s) of the identified errors on the results is(are) discussed |  |  |  |
| Changes to lab procedure that yield more accurate results are identified and discussed |  |  |  |
| **SUBTOTAL** |  |  |  |
| **TOTAL** | \_\_\_\_\_ / 50 | | |