**Final Draft Quality:**

$$^{+ }/\_{21}$$

* Full lab report is typed and graph is completed in LoggerPro

$$2$$

* Heading (name, partner(s), period, teacher, and date) & Lab Title

**Tables and Graphs – Table 1: Raw Data**

* Do I have an appropriate title and number (sequentially)? *(“Raw Data” is NOT an appropriate title)*

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* Do I have columns properly labeled with headings and trials nested under the appropriate heading?
* Do I have the correct units in the column headings *(and not in the table itself)*?
* Did I include appropriate uncertainties for my raw data?
* Do I have appropriate precision for my raw data?
* No calculated values are included in my table *(no averages or conversions!)*
* Is my table formatted so it is clear and easy to interpret? *(borders, column headings distinct from data, etc.)*
* Did I include the mass of my marble?
* Did I include the diameter of my marble?

**Table 2: Calculated Average Time, Conversions, and Velocity**

* Do I have an appropriate title and number (sequentially)? *(“Calculated Values” is NOT an appropriate title)*
* Do I have each column properly labeled with heading including correct units?
* All required calculated values are present in the table and my conversions are correct
* Do I have appropriate significant figures for my calculated data?
* Have I included a correct sample calculation for average time and height with units in my final answer?
* Have I included a correct sample calculation for velocity with units in my final answer?

**Table 3: Calculated Kinetic, Potential, and Mechanical Energies**

* Do I have an appropriate title and number (sequentially)? *(“Calculated Values” is NOT an appropriate title)*
* Do I have each column properly labeled with heading including correct units?
* All required calculated values are present in the table
* Do I have appropriate significant figures for my calculated data?
* Have I included a correct sample calculation of potential energy with units in my final answer?
* Have I included a correct sample calculation of kinetic energy with units in my final answer?
* Have I included a correct sample calculation of total mechanical energy with units in my final answer?

**Graph 1: Potential, Kinetic, and Mechanical Energies**

* Do I have an appropriate title and number on my graph?
* Do I have appropriate labels, including correct units, on each of my axis?
* Are my variables on the correct axis?
* Did I include total mechanical energy on my graph?
* Have I included a best fit line/curve for mechanical energy?
* Did I include kinetic energy on my graph?
* Have I included a best fit line/curve for kinetic energy?
* Did I include potential energy on my graph?
* Have I included a best fit line/curve for potential energy?
* Did I include a key that indicates which plotted line relates to each type of energy?

**Conclusion**

* Have I included a discussion of conservation of energy (#1a)?

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* Have I included a discussion of the relationship between potential and kinetic energies (#1b)?
* Have I included my percentage of mechanical energy lost (#2)?
* Have I shown how I calculated my percentage of mechanical energy lost (#2)?
* Have I included something that can account for the loss of energy (#3)?
* Is the source for loss of energy reasonable (#3)?