

“Marble Launcher Lab” Scoring Sheet

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Final Draft Quality:

- + /3
- Full lab report is typed and computer processed. (Nothing written in)
 - Heading (name, partner(s), period, teacher, and date) & Lab Title (centered & bold/underlined)
 - Correct order (Scoring sheet, raw data tables, processed data tables, graphs, and conclusion)

Table s and Graphs – Table 1: Raw Data for Part I

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- Do I have an appropriate title and number (sequentially)? (“Raw Data” is NOT an appropriate title)
 - Do I have each column properly labeled with heading and trials?
 - Do I have the units in the column headings (and not in the table itself)?
 - Have I included at least 5 trials for all manipulations
 - No calculated values are included in my table (no averages!)
 - All required data is present and easy to interpret
 - My table has grid lines that are clear
 - Column headings are distinct from the content (i.e. you've used **bold** font for the headings and not for the rest)

Table 2: Raw Data for Part II

- Do I have an appropriate title and number (sequentially)? (“Raw Data” is NOT an appropriate title)
- Do I have each column properly labeled with heading and trials?
- Do I have the units in the column headings (and not in the table itself)?
- Have I included at least 5 trials for all manipulations
- No calculated values are included in my table (no averages!)
- All required data is present and easy to interpret
- My table has grid lines that are clear

Table 3: Calculated Averages for Part I

- 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 units?
- All required calculated values are present in the table
- My table has grid lines that are clear
- Have I included a sample calculation for an average calculation?

Table 4: Calculated Averages and Velocities for Part II

- 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 units?
- All required calculated values are present in the table
- My table has grid lines that are clear
- Have I included a sample calculation of velocity?

Graph 1: Range – Angle for Part I

- Do I have an appropriate title and number on my graph?
- Do I have appropriate labels, including units, on each of my axis?
- Are my variables on the correct axis?
- Have I included a best fit curve?
- Did I include the equation for my line with the appropriate units? (i.e. – replace x with t)

Graph 2: Range – Velocity for Part II

- Do I have an appropriate title and number on my graph?
- Do I have appropriate labels, including units, on each of my axis?
- Have I included a best fit line?
- Did I include the equation for my line with the appropriate units? (i.e. – replace x with t)

Conclusion

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- Have I included a qualitative description of Graph 1 (Part I #2)?
 - Have I included the launch angle for maximum range (Part I #3)?
 - Have I shown how I found this angle on Graph 1 (Part I #3)?
 - Have I included my discussion on whether or not Graph 2 is linear (Part II #3)?
 - Have I stated what fit may be more appropriate with a new graph (Part II #3)?
 - Does the new graph have the appropriate formatting (Part II #3)?