Name: _____ Period: _____

"Uniform Accelerated Motion with a Car and Ramp" Scoring Sheet

+ /25

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, analysis questions, and conclusion)

Table s and Graphs – Table 1: Raw Data

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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 headings that are distinct (i.e. colored background)
- ☐ Do I have the units and uncertainties in the column headings (and not in the table itself)?
- ☐ Have I included 3-5 trials for all manipulations which are nested underneath the headings?
- ☐ Did I make sure I have no calculated values are included in my table (no averages!)?
- ☐ Do I have the appropriate level of precision for all my data?
- ☐ Is all required data is present and easy to interpret?
- ☐ Does my table have grid lines that are clear?

Table 2: Averages and Velocities

- ☐ 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 average time through photogate A?
- ☐ Have I included a sample calculation of average time through photogate B?
- ☐ Have I included a sample calculation of average total time from photogate A to B?
- ☐ Have I included a sample calculation of initial velocity?
- ☐ Have I included a sample calculation of final velocity?

Graph 1: Position – Time (Make sure that your graphs' axes are scaled appropriately so there isn't empty space)

- ☐ 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 line/curve?
- ☐ Did I include the equation for my line with the appropriate units? (i.e. – replace x with t)

Graph 2: Velocity - Time

- ☐ 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 line/curve?
- ☐ Did I include the equation for my line with the appropriate units? (i.e. – replace x with t)
- ☐ Did I include the slope for the graph on the graph itself including proper units?

Graph 3: Position - $(Time)^2$

- ☐ 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 line/curve?
- ☐ Did I include the slope for the graph on the graph itself with proper units?

Graph 4: $(Velocity)^2$ - Position

- ☐ 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 line/curve?
- ☐ Did I include the slope for the graph on the graph itself with proper units?

Analysis and Conclusion

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- ☐ Have I included my answer to Question #3?
- ☐ Have I included my answer to Question #6?
- ☐ Have I included my answer to Question #7? (Show calculation)
- ☐ Have I included a 1-2 sentence conclusion with my value for acceleration and the percent error?
- ☐ Have I included 2 sources for error for this lab? Have I included an improvement to avoid each error in the future?