"Force, Mass, Acceleration Lab" Scoring Sheet

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Part I – Raw Data Tables (5 pts)

- ☐ Have I included an appropriately descriptive title with context for the lab?
- ☐ Have I included an appropriate table number?
- ☐ Is each column properly labeled with correct headings?
- ☐ Are the column headings are distinct from the content of the table? *(i.e. – bold and colored background)*
- ☐ Are correct units are ONLY in the column headings and not in the table itself?
- ☐ Are all 5 trials nested under the appropriate heading?
- ☐ Have I made sure there are no calculated values included in my table? *(no averages or <u>conversions!</u>)*
- ☐ Have I included CORRECT uncertainties with appropriate sig figs?
- ☐ Do I have the correct level of precision for each of my measurements?
- ☐ Is all required data present and formatted so it is clear and easy to interpret?

Part I – Data Analysis (3 pts)

- ☐ Did I include Table 3 with all required calculated values?
- ☐ Does Table 3 have appropriate formatting (title, #, units, column headings)?
- ☐ Have I shown my work for all sample calculations including equations in variable form?
- ☐ Have I included correct units and significant figures for all sample calculations?
- ☐ Have I included a CORRECT sample calculation for average time with units in my final answer?
- ☐ Have I included a CORRECT sample calculation for initial velocity with units in my answer?
- ☐ Have I included a CORRECT sample calculation for acceleration with units in my final answer?

Part I – Graph: Relationship between Mass and Acceleration (5 pts)

- ☐ Have I included an appropriately descriptive title with context for the lab?
- ☐ Have I included an appropriate graph number?
- ☐ Do I have appropriate axis labels on each of my axes?
- ☐ Do I have the appropriate units included on each of my axes?
- ☐ Are my variables on the correct axis?
- ☐ Are my axes scaled appropriately for this data set? *(i.e. – not too much blank space)*
- ☐ Have I included a best fit line/curve?
- ☐ Did I include the equation for my line with the appropriate variables? *(i.e. – replace x and y)*
- ☐ Have I typed the slope (with units) of my best fit line on the graph itself? *(Graph 2 only from #4)*
- ☐ Was the graph completed in LoggerPro?

Part I – Conclusion Questions (3 pts)

- ☐ Is Conclusion Question #1 correct and complete? (½ pt)
- ☐ Is Conclusion Question #2 correct and complete? (1 pt)
- ☐ Is Conclusion Question #3 correct and complete? (½ pt)
- ☐ Is Conclusion Question #4 correct and complete? (1 pt)