

## John Jay Physics Lab Report Rubric

Formal Report: Updated, Spring 2014

		Total Possible Points	Points Earned
<b>Title Page (0.3 pts possible)</b>		<i>Title Total</i>	
Title of the Report		0.1	
Names of all group members (alphabetical)		0.1	
Class title w/ section and date		0.1	
<b>Methods and Findings (8.8 pts possible)</b>		<i>M&amp;F Total</i>	
Clear, concise, quantitative distillation of finding: specific answer to R.Q. or assessment of hypothesis, including meaningful use of uncertainty range. All on its own page.		1.5	
<i>A (Abstract)</i>			
<i>B (Res. Q./Hyp)</i>	Research Question or Hypothesis explicitly presented.	0.5	
<i>C (Diagram)</i>	Neat, clear, original diagrams presented: labeled w/ constants and variables defined.	0.3	
<i>D (Data Collection)</i>	Clear, formal description of reproducible methods for data collection: no use of 2nd person.	1.5	
<i>E (Analysis)</i>	i. Continuous, readable flow of qualitative and quantitative discussions (in clear English).	1	
	ii. All equations off-set, centered <u>and explained</u> in English; no more than two equations in a row without English explanation interspersed.	0.5	
	Logical, articulate and original presentation of chain of reasoning from collected data to finding, i.e.: from data to research question response or hypothesis assessment.	1	
<i>F (Uncertainty)</i>	i. Absolute uncertainty for each measurement	0.3	
	ii. Fractional uncertainty or range for each measurement	0.3	
	iii. Combined fractional uncertainty or range for result	0.3	
	iv. Combined absolute uncertainty for result	0.3	
	v. Use of uncertainty: relationship to research question response or hypothesis assesment, i.e.: implication on finding.	0.5	
<i>G (Conclusion)</i>	Last sentence explicitly and concisely addresses RQ or hypothesis: usually explains <u>at least 1</u> finding relationship between 2 variables (qualitatively <i>and</i> quantitatively represented)	0.5	
OVERALL: M&F section is written as a continuous, coherent,		0.3	
<b>Appendices (.9 pts possible)</b>		<i>Appendices Total</i>	
All raw data tables, trials, graphs, photographs, etc. clearly and comprehensively separated and presented as appendices		0.3	
All appendices clearly referenced as necessary throughout the report		0.3	
All appendices clearly labeled (e.g. x and y axis titles, etc.)		0.3	
		<b>Total points (out of 10)</b>	