

Name: _____

Project No. _____

Name: _____

Honors Physics - Investigative Report Grading Rubric

I. Introduction (5 points)

A. Cover page that includes title, names, course, and teacher									
B. Independent variables and dependent variables stated	3	2	1	1	0				
C. Detailed description of project including purpose				1	0				

II. Schematic Diagram and Materials List (10 points)

A. Schematic Diagram with component designations (identify connections)	4	3	2	1	0				
B. Independent variables (components) clearly identified	4	3	2	1	0				
C. Materials table to include values and tolerances.			2	1	0				

III. Assembly Procedure and Experimentation Procedure (10 points)

A. Steps and sequential order of assembly (detailed)	4	3	2	1	0				
B. Procedures for testing the dependent variable.	4	3	2	1	0				
C. Define the control			2	1	0				

IV. Circuit Analysis (20 points)

For 4 of the following types of components in YOUR project

(capacitors, resistors, transistors, IC, diode, LED, speaker, etc)

A. Function / purpose	5	4	3	2	1	0			
B. Description of composition (make-up)	5	4	3	2	1	0			
C. Description of current flow within component	5	4	3	2	1	0			
D. Clear presentation of how the components work together	5	4	3	2	1	0			

V. Data – Charts and Graphs (20 points)

A. Date in table form with title	4	3	2	1	0				
B. Columns labeled with units			2	1	0				
C. Appropriate graph type to match data collection (title, scale, range, interval)			2	1	0				
D. Independent variable on X axis – labeled with units		3	2	1	0				
E. Dependent variable on Y axis – labeled with units		3	2	1	0				
F. Line / Curve of best fit (may be hand drawn)			2	1	0				
G. Matches data collected	4	3	2	1	0				

VI. Conclusion (25 points)

A. Restatement of purpose and project description	5	4	3	2	1	0			
C. Definition of terms			3	2	1	0			
D. Identification of variables				2	1	0			
E. Relationship between variables identified with data support	4	3	2	1	0				
F. Graphical Analysis / discuss trends in graph		3	2	1	0				
G. Data analysis including appropriate regression			2	1	0				
H. Sources of error in experiment			2	1	0				
I. Ways to minimize error			2	1	0				
J. Proposal for future study			2	1	0				

VII. Over all format and neatness (10 points)

A. Written in 3 rd person / Grammar / Spelling / typographical errors	4	3	2	1	0				
B. Overall neatness and organization (sections labeled, properly divided)			2	1	0				
C. Bibliography (MLA format only; minimum of three)			2	1	0				
D. Form (full justification), margins (1"), page numbers			2	1	0				

Final Score _____ **out of 100**