Experimental Design Division B Rubric

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1. Statement of problem	7. Quantitative Data	
Not a yes/no question	Data Table	
Independent and dependent variables	All raw data is given	
included	All data has units	
Problem is clearly testable	Condensed table with most	
Response is written in a clear and concise	important data included	
manner	Table(s) labeled properly: titles,	
mamor	units, headings	
2 Hypothogic	Example calculations are given	
2. Hypothesis		
Statement gives specific direction to the	Appropriate statistics are given	
predictions(s): A stand is taken.	(example: average)	
Prediction includes both independent and	Graph(s)	
dependent variables	Appropriate type of graph used	
Statement gives enough information to	Graph has title	
understand prediction(s)	Graph labeled properly: axes,	
Response is written in a clear and concise	series	
manner	Unites included	
	Appropriate scale used	
3. Variables	Trends in data are represented	
Independent Variable		
IV correctly identified	8. Analysis and interpretation of data	
IV operationally defined	All data discussed and interpreted	
At least three levels of IV given	Unusual data points commented on	
Dependent Variable	Trends in data explained and interpreted	
(2) DV correctly identified	Enough detail is given to understand data	
DV operationally defined	Enough detail is given to understand data	
Controlled Variables	0. Possible Experimental E	
	9. Possible Experimental Errors	
(2) 1 CV correctly identified	Possible reasons for errors are given	
2 CV correctly identified	Important info about data collection given	
3 CV correctly identified	Effect errors had on data discussed	
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4. Standards of Comparison	10. Conclusion	
(2) SOC correctly identified	Hypothesis is evaluated according to data	
Reason given for why response is SOC	Hypothesis is re-stated	
	Reasons to accept/reject hypothesis given	
5. Materials and Procedure	All statements are supported by the data	
All materials used are listed		
Materials listed separately from procedure	11. Recommendations for further experimentation Suggestions for improvement of specific experiment are given Suggestions for future experiments given	
Procedure well organized		
Procedure is in a logical sequence		
(2) Enough information is given so another		
could repeat procedure	Further predictions made based on results	
Diagrams used	Practical application(s) of experiment give	
Repeated trials		
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6. Qualitative Observations	Questions or Comments about this rubric?	
Observations given at start of experiment		
Observations given middle of experiment	See www.experimentwisconsin.com	
Observations given end of experiment		
Adequate detail given to understand	or send email to	
Adequate detail given to understand		
	experimentwisconsin@yahoo.com	

Total Score _____ Rank ____

School	Total Score	Rank