

Methodology: Experiment

	Exemplary 4	Proficient 3	Marginal 2	Unacceptable 1
Hypothesis	The hypothesis is precisely stated and is testable and falsifiable.	The hypothesis is stated and is testable and falsifiable.	The hypothesis is stated but is not testable or falsifiable.	The hypothesis is missing.
Variables	Clearly identified controllable independent variable(s) and measurable dependent variable(s). The relationship between variables discussed.	Identified independent and dependent variable(s). The relationship between variables discussed.	Identified variable(s) in the experiment. The relationship between variables is not discussed.	No variable(s) identified in the experiment.
Research Design	Experiment design clearly discussed and justified. The design completely tests the stated hypothesis.	Experiment design discussed and justified. The design tests the hypothesis.	Experiment design is discussed. The design does not test the hypothesis.	No experiment design discussed OR the discussed design is not relevant to the hypothesis.
Usability	Experiment suggests a solution/system that is easy to learn, fast to use, and built to be reliable and recovers from errors well.	Experiment suggests a solution/system that is easy to learn and easily configurable. Error recovery is not discussed.	Experiments suggests a solution/system that is fast to configure. Learning curve is steep.	The experiment doesn't discuss the usability of the system/solution.
Procedures	All steps stated in a logical order and are explained clearly.	All steps stated in an order. Most steps are explained clearly.	All steps are stated but not in order. The steps are not explained.	Steps are not accurately listed and/or explained.

Statistical Analysis	Accurate statistical analysis with the strengths/weaknesses of the model discussed.	Accurate statistical analysis.	Statistical analysis performed but is not accurate.	No statistical analysis performed.
Articulation	All findings presented with a very high degree of detail.	Most findings are expressed with a high degree of detail.	Most findings lack an authentic degree of detail.	None of the findings are presented with an acceptable degree of detail.
Conclusion	<p>The conclusion states clearly whether the findings supported the hypothesis.</p> <p>The conclusion discussed the potential sources of error.</p> <p>The conclusion discusses the key lessons.</p>	<p>The conclusion states whether the findings supported the hypothesis.</p> <p>The conclusion discusses the lessons learned.</p>	<p>The conclusion does not reject or validate the hypothesis.</p> <p>The conclusion does not discuss the lessons learned.</p>	No conclusion present.