

Carrying Out Research Rubric

Objective	Novice (1)	Intermediate (2)	Expert (3)
Understanding The Problem	1. Can give a vague and sketchy summary of the scientific problem that the research will address.	1. Can state orally with prompting and can provide an incomplete written summary of the scientific problem that the research will address.	1. Can state orally and can provide a written summary of the scientific problem that the research will address.
	2. Can provide an incomplete reason for performing the research.	2. Can provide with prompting a reason for performing the research.	2. Can provide a compelling reason for performing the research.
Experimental Procedures	1. Can carry out only portions of the experimental procedures.	1. Can carry out the experimental procedures with significant assistance.	1. Can successfully carry out all required experimental procedures.
	2. Can describe some of the steps.	2. Can describe each step.	2. Can describe the significance of each step.
Experimental Results	1. Data is collected in a manner that displays an unacceptable degree of precision and accuracy.	1. Data is collected in a manner to achieve a marginal degree of precision and accuracy.	1. Data is collected in a manner to achieve an acceptable degree of precision and accuracy.
	2. Analysis of data is inappropriate and incorrect.	2. Analysis of data is appropriate and correct, with guidance.	2. Analysis of data is appropriate and correct.
	3. Some data is used to address the scientific problem.	3. Most data is used to address the scientific problem.	3. Data is used to address the scientific problem.
Discussion and Conclusions	1. Interpretation of results is incorrect and inappropriate.	1. Interpretation of results is correct and appropriate, with guidance.	1. Interpretation of results is correct and appropriate.
	2. Conclusions drawn from data are inappropriate.	2. Most conclusions drawn are appropriate.	2. Conclusions drawn from data are appropriate.
	3. Further related research cannot be proposed without extensive prompting	3. Further related research can be proposed, with prompting.	3. Further related research can be proposed.