

**Methods & Materials Rubric:** In this section of a scientific report, you must explain how you TESTED your hypothesis. It should clearly demonstrate why this is a *valid* and *rigorous* procedure to see if you can potentially falsify your hypothesis. This section should also allow other scientists to use your methods in their own research.

	5 points	4 points	2 points	0 points	score
DESCRIBE YOUR EXPERIMENT	Includes all factors that may affect the experimental results, including independent variables, dependent variables, and control variables.	Includes most factors that may affect the results of the experiment.	Includes some factors that may affect the results of the experiment.	Lacks explanation of factors that affect results.	
PROCEDURES	All special details & steps are listed	All steps are listed	Some steps are listed	No steps are listed	
MATERIALS	All materials and equipment listed	All materials listed	Some materials listed	Incorrect or no materials listed	
DESCRIBE CONTROL GROUP	The control variable – kept the same in both groups - is identified, & described.	Control variable is identified but not fully described.	A control variable is identified.	Control variable is not identified or described.	
DESCRIBE EXPERIMENTAL GROUP	IDs the experimental group – the one composed of the independent variable	IDs experimental group, but does not fully explain the independent variable	ID experimental group, but incorrectly explains the independent variable	Lack of info on independent variable.	
DEMONSTRATE REPETITION	Fully describes & justifies either multiple trials or multiple experimental setups.	Does not fully describe & justify repetition.	Incorrectly describes repetition.	No account of repetition.	
DESCRIBE RELEVANT DATA TO BE COLLECTED	Fully describes & justifies data to be collected in the context of testing the hypothesis.	Describes data but does not fully justify.	Briefly describes data.	Does not explain data.	
DATA ANALYSIS	Fully describes & justifies how data will be analyzed to test Ho.	Partly describes & justifies how data will be analyzed.	Poorly describes & justifies how data will be analyzed.	No discussion of data analysis.	
VALIDITY OF METHOD FOR TESTING THE HYPOTHESIS	Clearly explains how this test will enable you to accept or reject your hypothesis.	Partly explains how this test will enable you to accept or reject your hypothesis	Illogically explains how this test will enable you to accept or reject your hypothesis	Does not explain how test leads you to accept or reject your hypothesis	
WRITING	Clearly written using correct grammar	Some ambiguity and some grammatical errors.	Poorly written and poor grammar.	Not intelligible.	
				TOTAL OUT OF 50:	