

Updated Scientific Method

Course: BIOL 103 6369 Introduction to Biology (2235)

Criteria	Excellent (90 - 100%)	Good (75 - 89%)	Adequate (50 - 74%)	Unacceptable (0 - 49%)	Criterion Score
The Scientific Method	40 points All steps of the scientific method are clearly and accurately identified and described. 5 of 5: Background, Hypothesis, Methods, Results, Conclusion	30 points One of the steps in the scientific method in the provided research study is not described <i>and/or</i> minor issues with clarity and accuracy in identifying and describing the step(s) of the scientific method. 4 of 5: Background, Hypothesis, Methods, Results, Conclusion	20 points Two of the steps in the scientific method in the provided research study are not described <i>and/or</i> major issues with clarity and accuracy in identifying and describing the step(s) of the scientific method. 3 of 5: Background, Hypothesis, Methods, Results, Conclusion	10 points Most or all of the steps in the scientific method is not described. ≤2 of 5: Background, Hypothesis, Methods, Results, Conclusion	/ 40
Groups and Variables Defined	20 points All of the following are correctly addressed: - experimental group - control group - control variables - independent variables - dependent variables	16 points 4 of 5 are correctly addressed: - experimental group - control group - control variables - independent variables - dependent variables	12 points 3 of 5 are addressed: - experimental group - control group - control variables - independent variables - dependent variables	8 points ≤2 of 5 are addressed: - experimental group - control group - control variables - independent variables - dependent variables	/ 20
Clarity	10 points Content is well organized and easy to follow.	7 points Content is easy to follow, but not clearly organized.	3 points Content is difficult to follow and unorganized.	0 points Content is incomprehensible.	/ 10
Grammar/Spelling (10 pts)	10 points 0-2 minor spelling/grammatical errors	8 points 3-5 spelling/grammatical errors	5 points -6-10 spelling/grammatical errors OR -paragraphs are unorganized or difficult to follow with minor spelling errors	2 points More than 10 spelling /grammatical errors or sentences are difficult to follow AND -paragraphs are unorganized or difficult to follow	/ 10
Response to Classmates	20 points Responded to at least 2 peers. Responses contain ≥1 positive and ≥1 improvement of feedback related to the scientific method. Feedback is constructive and respectful.	15 points Responded to at least 2 peers. Responses relate to the scientific method, but may not be constructive or full detailed. Feedback is respectful.	10 points Responded to at least 1 peer. Response contains ≥1 positive and ≥1 improvement of feedback related to the scientific method. Feedback is constructive and respectful.	0 points Response is not constructive in relation to scientific method, OR feedback is not respectful.	/ 20

Total

/ 100

Overall Score

Excellent
90 points minimum

Good
75 points minimum

Adequate
50 points minimum

Unacceptable
0 points minimum