

Assessment rubric.

Criteria	Evaluation	Points
Introduction		
States a researchable question and clearly explains its relevance	1 2 3 4	
States an hypothesis that addresses the question and expected results	1 2 3 4	
Materials and methods		
Investigation is appropriately designed to address the research question	1 2 3 4	
Describes the materials and methods clearly enough to be replicated	1 2 3 4	
Uses proper equipment, techniques, and safety precautions	1 2 3 4	
Includes data and observations recorded at appropriate intervals	1 2 3 4	
Results and analysis		
Summarizes data clearly using tables or graphs	1 2 3 4	
Identifies trends and outlying data	1 2 3 4	
Clearly describes analyses	1 2 3 4	
Discussion and conclusions		
Compares actual to predicted results	1 2 3 4	
Clearly interprets results in terms of the original research question	1 2 3 4	
Makes conclusions that are well supported by the data	1 2 3 4	
Identifies possible improvements in the investigation design	1 2 3 4	
Suggests new directions for future research	1 2 3 4	
Defends or revises conclusions based on consideration of alternative explanations of results	1 2 3 4	
Overall report		
Displays understanding of experimental design	1 2 3 4	
Displays understanding of relevant biology concepts	1 2 3 4	
Includes clear discussion of use of peer review comments in revising the report or logical arguments for why peer suggestions weren't followed	1 2 3 4	
Appropriately cites written or web-based references	1 2 3 4	
Organizes ideas clearly	1 2 3 4	
Uses proper spelling and grammar	1 2 3 4	
TOTAL		

Scale

- 1: Doesn't meet the requirements
- 2: Partially meets the requirements
- 3: Fully meets the requirements
- 4: Exceeds expectations