### Assessment rubric.

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