

BIO 111 Tutorial Response Rubrics

Abstract Scoring

	Beginning (1)	Developing (2)	Exemplary (3)
<p>Tutorial Question Why do you think it isn't enough just to read an article's abstract if you want to cite its findings?</p> <p>Related Learning Outcome Students will be able to describe strategies for reading scientific research articles strategically</p>	<p>Incorrect or overly vague summary of an article abstract's structure or purpose AND doesn't provide strategies for engaging with the full article</p>	<p>May generally characterize the abstract as an overview or summary but stops short of mentioning specific details readers should look for before attempting to summarize an article's findings</p>	<p>May characterize the abstract as an overview or summary AND provides specific details readers should look for before attempting to summarize an article's findings</p>

Source Location

	Beginning (1)	Developing (2)	Proficient (3)	Exemplary (4)
<p>Tutorial Question Your goal is to find one promising article about using macroinvertebrate populations to help assess stream health.</p> <p>Related Learning Outcome Students will be able to assess and evaluate database search results in order to identify the most relevant articles for their literature reviews</p>	<p>Article does not come from a scholarly journal with a peer-review process</p>	<p>Article comes from a scholarly journal with a peer-review process BUT it is not an empirical research article (e.g., review article, news piece, commentary) OR the article is not about stream ecology</p>	<p>Article comes from a scholarly journal with a peer-review process AND is an empirical research article BUT the student lists some other piece of information instead of the journal's name (e.g., the name of the publisher) OR the student includes additional information (e.g., volume, issue, page range) along with the journal name</p>	<p>Article comes from a scholarly journal with a peer-review process AND is an empirical research article AND student correctly lists some version of the journal's name without any additional details (e.g., no volume, issue, or page range)</p>

Source Engagement

	Beginning (1)	Developing (2)	Proficient (3)	Exemplary (4)
Tutorial Question <i>Introduction:</i> What was the authors' hypothesis? (one sentence)	Response does not contain a meaningful attempt to engage with specific information beyond what is presented in the abstract	Response attempts to summarize information from the introduction section BUT does not address <i>any</i> portion of the hypothesis as presented in the article	Response attempts to summarize at least a portion of the authors' hypothesis BUT omits significant details and specificity in a way that implies a lack of full understanding	Response summarizes the authors' complete hypothesis in a way that demonstrates full understanding
Tutorial Question <i>Methods:</i> Explain exactly how the experiment was done. (one or two sentences)	Response does not contain a meaningful attempt to engage with specific information beyond what is presented in the abstract	Response attempts to summarize 1–2 steps described in the methods section AND may not attempt to contextualize those steps within the larger procedure	Response attempts to summarize multiple (2+) steps described in the methods section BUT omits details about additional, essential steps in a way that implies a lack of understanding of the full procedure	Response summarizes the authors' methods in a way that acknowledges or addresses the most essential steps in the procedure, demonstrating full understanding
Tutorial Question <i>Results:</i> Summarize the major findings. (one or two sentences)	Response does not contain a meaningful attempt to engage with specific information beyond what is presented in the abstract	Response attempts to summarize information from the results section BUT misinterprets or misrepresents details in a way that <i>definitively</i> indicates a lack of understanding	Response attempts to summarize a portion of the authors' major findings BUT characterizes those findings in an incomplete way, implying a lack of full understanding	Response summarizes the authors' major findings in a way that demonstrates full understanding
Tutorial Question <i>Discussion:</i> List one area for future research the authors suggest. (one sentence)	Response does not contain a meaningful attempt to engage with specific information beyond what is presented in the abstract	Response attempts to summarize information from the discussion section BUT does not provide any details associated with suggested areas for future research	Response attempts to summarize one of the authors' suggestions for future research opportunities BUT omits significant details and specificity in a way that implies a lack of full understanding	Response summarizes one of the authors' suggestions for future research opportunities in a way that demonstrates full understanding

For this assessment section, we will exclude tutorial responses that did **not** receive a score of 3+ for "Locate One Peer-Reviewed Empirical Research Article"

Source Use

	Beginning (1)	Developing (2)	Proficient (3)	Exemplary (4)
Citation Mechanics	Multiple bibliographic entries or in-text citations contain major CSE-style formatting errors that make them unrecognizable as references OR multiple bibliographic entries or in-text citations omit necessary elements in such a way that it is impossible to determine source type from the references alone	One or more bibliographic entries or in-text citations lack necessary CSE-style elements OR contain extraneous information (e.g. proxy links to database records) BUT it is still possible to determine source type from the references alone	All bibliographic entries and in-text citations contain all necessary elements BUT one or more references contain minor CSE-style formatting errors (e.g., all-caps titles) OR one or more references transpose necessary elements and present them in the wrong order	All bibliographic entries and in-text citations contain all necessary elements AND are properly formatted using CSE style
Introduction of Evidence	Introduction of sources almost always interrupts the narrative flow of students' writing OR students include one or more dropped quotes from cited works	Introduction of sources frequently interrupts the narrative flow of students' writing OR students include one or more quotations (>3 words) from cited works instead of paraphrasing	Introduction of sources may occasionally interrupt the narrative flow of students' writing AND students always attempt to paraphrase cited works instead of including quotations (>3 words)	Introduction of sources almost never interrupts the narrative flow of students' writing AND students always attempt to paraphrase cited works instead of including quotations (>3 words)
Engagement with Evidence	Sources are almost always presented without context or interpretation and evaluation that acknowledges how they relate to the students' own work at Marsh and Rock Creeks	Sources are frequently presented without context or interpretation and evaluation that acknowledges how they relate to the students' own work at Marsh and Rock Creeks	Sources are occasionally presented without context or interpretation and evaluation that acknowledges how they relate to the students' own work at Marsh and Rock Creeks BUT frequently overlooks significant differences (e.g., the fact that a cited study was conducted in a very different ecological setting)	Sources are never presented without context or interpretation and evaluation that explicitly acknowledges how they relate to the students' own work at Marsh and Rock Creeks AND frequently acknowledges relevant, significant differences between cited studies and BIO 111 lab work