

	<b>Novice</b> 50-69	<b>Apprentice</b> 70-79	<b>Proficient</b> 80-89	<b>Expert</b> 90-100
<b>Topic Focus</b>  15  <i>Abstract &amp; Introduction</i>	Abstract included but is a limited summary of paper.  The question is not clearly defined and lacks understanding of relevance.  Uclear statement of hypothesis using little/no relevant supporting research.	Abstract provides brief summary of paper.  Broad question with some explanation of relevance.  Statement of hypothesis with some supporting research.	Abstract provides clear summary of paper.  Clearly defined question with understanding of relevance evident.  Clear statement of hypothesis using supporting research.	Abstract provides detailed summary of the paper.  Focused question with thorough explanation of relevance.  Detailed statement of hypothesis using substantial supporting research.
<b>Integration of Knowledge</b>  15  <i>Methods, Results, Discussion &amp; Analysis</i>	The paper does not demonstrate understanding of and application of key concepts experimentation & collection of data.  Inability to draw conclusions from data gathered and no support from background research.  Limited elaboration in application section  Cursory mention of ways to use information and further potential research.	The paper demonstrates some understanding of and limited application of key concepts experimentation & collection of data.  Explanation of some results is based on limited scientific background and/or limited data gathered used to draw conclusions.  Limited discussion of ways to use information and further potential research.	The paper demonstrates understanding of and applies key concepts of experimentation & collection of data.  Explanation of most results based on scientific background and uses some data gathered to draw conclusions.  Clear discussion of ways to use information and further potential research.	The paper demonstrates full understanding of and applies key concepts of experimentation & collection of data.  Explanation of results based on scientific background conclusive and clearly uses data gathered.  In-depth discussion & elaboration of ways to use information and further potential research.
<b>Citations &amp; References</b>  5	Does not cite sources.	Cites some data obtained from other sources. Citation style is either inconsistent or incorrect.	Cites most data obtained from other sources. APA citation style is used in both text and reference section.	Cites all data obtained from other sources. APA citation style is used in both text and reference section.
<b>Formal Journal Formatting</b>  10	Followed few/none of the outlined formatting requirements.	Followed some outlined formatting requirements.	Followed most outlined formatting requirements.	Followed all outlined formatting requirements.
<b>Corrections</b>  10	No/few suggested corrections have been made	Some suggested corrections have been made.	All or most suggested corrections have been made.	All suggested corrections have been made <b>with additional improvements.</b>