

	<b>A</b>	<b>B</b>	<b>C</b>
<b>physics and analysis</b>	Physics explanations are both accurate and clear. Analytical abilities on display are clearly superior, and reflect an originality of thinking.	Physics explanations are mostly accurate and/or mostly clear. Analytical abilities on display reflect a capability to separate ideas into their component parts properly.	Only some physics explanations are accurate. Analytical abilities on display are inconsistent: some ideas are clear and/or fully understood; others are not.
<b>pedagogy</b>	Excellent pedagogically: explanations are uniformly clear and readily understandable to a non-expert reader.	Good pedagogically. Several concept explanations are made well for the intended non-expert audience.	Pedagogically, the quality of explanations is inconsistent; several physics concepts are explained rather confusingly.
<b>organization</b>	Essay is written logically and coherently throughout.	Essay includes some minor misunderstandings or logical inconsistencies, but they hardly detract from the overall coherence of the argument.	Essay includes some significant misunderstandings or logical inconsistencies, which lessen the overall credibility of the argument.
<b>synthesis</b>	Presentation of evidence demonstrates masterful understanding of themes, specific and general.	Presentation of evidence demonstrates clear understanding of themes, specific and general.	Presentation of evidence demonstrates a flawed understanding of either its specific or general themes.
<b>relevance</b>	Evidence marshaled is directly relevant to the essay questions asked, throughout.	Evidence marshaled is largely applicable to analysis throughout.	Some evidence is clearly tangential and detracts from the credibility of the argument; and/or evidence marshaled is insufficient to support the claims made.
<b>depth and breadth</b>	Essay draws from an impressive variety of sources and perspectives. Both solid primary and secondary references are recruited. Exceptional quantity or quality of sources.	Essay draws from legitimate and acceptable variety of primary and (if applicable) secondary sources.	Sources are either superficial (e.g. newspaper article, encyclopedia entry), or obtained from only one location, or are insufficient overall.
<b>writing style</b>	Grammar, punctuation, proper use of paragraphs and spelling are virtually flawless. Language and word choice are appropriate throughout.	Limited flaws in grammar, punctuation, paragraph choice, and/or spelling do not detract from overall essay message. Minor problems only noted.	Significant flaws in some of grammar, punctuation, paragraph usage, spelling, language and/or word choice.
<b>references and citations</b>	Essay follows citation convention virtually flawlessly. Good use of both primary and secondary references.	Minor flaws in citations. Good use of primary references.	Significant flaws in citations. References insufficiently detailed to be clearly authoritative, and/or indicated pages in the textbook used as sole reference.