

Table 4.2 – Physics B Scoring Worksheet (page 220)

Please use the following in place of the scoring worksheet found on page 220 in the AP Physics B 1998 Released Exam. The worksheet found within the printed book itself should not be used because beginning with the May 2011 administration of AP Exams, the method for scoring the multiple-choice section has changed. Beginning in 2011, total scores on the multiple-choice section are based on the number of questions answered correctly. Points are no longer deducted for incorrect answers and, as always, no points are awarded for unanswered questions.

Section I: Multiple-Choice

$$\frac{\text{Number Correct (out of 70)}}{\text{Multiple-Choice Score}} \times 1.2857 = \text{Weighted Section I Score (Do not round)}$$

Section II: Free Response

Question 1	_____ (out of 15)	X 1.000 =	_____ (Do not round)
Question 2	_____ (out of 15)	X 1.000 =	_____ (Do not round)
Question 3	_____ (out of 10)	X 1.000 =	_____ (Do not round)
Question 4	_____ (out of 10)	X 1.000 =	_____ (Do not round)
Question 5	_____ (out of 10)	X 1.000 =	_____ (Do not round)
Question 6	_____ (out of 10)	X 1.000 =	_____ (Do not round)
Question 7	_____ (out of 10)	X 1.000 =	_____ (Do not round)
Question 8	_____ (out of 10)	X 1.000 =	_____ (Do not round)

AP Score Conversion Chart Physics B 1998	
Composite Score Range	AP Score
112 - 180	5
90 - 111	4
63 - 89	3
50 - 62	2
0 - 49	1

*The candidates' scores are weighted according to formulas determined in advance each year by the Development Committee to yield raw composite scores; the Chief Faculty Consultant is responsible for converting composite scores to the 5-point AP scale.

$$\text{Sum} = \text{Weighted Section II Score (Do not round)}$$

Composite Score

$$\text{Weighted Section I Score} + \text{Weighted Section II Score} = \text{Composite Score (Round to nearest whole number)}$$

Table 4.2 – Physics C: Mechanics Scoring Worksheet (page 221)

Please use the following in place of the scoring worksheet found on page 221 in the AP Physics C 1998 Released Exam. The worksheet found within the printed book itself should not be used because beginning with the May 2011 administration of AP Exams, the method for scoring the multiple-choice section has changed. Beginning in 2011, total scores on the multiple-choice section are based on the number of questions answered correctly. Points are no longer deducted for incorrect answers and, as always, no points are awarded for unanswered questions.

Section I: Multiple-Choice

$$\frac{\text{Number Correct (out of 34)}}{\text{Number Correct (out of 34)}} \times 1.3235 = \frac{\text{Multiple-Choice Score (Do not round)}}{\text{Multiple-Choice Score (Do not round)}} = \frac{\text{Weighted Section I Score}}{\text{Weighted Section I Score}}$$

Section II: Free Response

Question 1	_____	X 1.0000 =	_____
	(out of 15)		(Do not round)
Question 2	_____	X 1.0000 =	_____
	(out of 15)		(Do not round)
Question 3	_____	X 1.0000 =	_____
	(out of 15)		(Do not round)

Sum = _____
 Weighted Section II Score (Do not round)

AP Score Conversion Chart Physics C: Mechanics	
Composite Score Range	AP Score
53 - 90	5
40 - 52	4
32 - 39	3
21 - 31	2
0 - 20	1

*The candidates' scores are weighted according to formulas determined in advance each year by the Development Committee to yield raw composite scores; the Chief Faculty Consultant is responsible for converting composite scores to the 5-point AP scale.

Composite Score

$$\frac{\text{Weighted Section I Score}}{\text{Weighted Section I Score}} + \frac{\text{Weighted Section II Score}}{\text{Weighted Section II Score}} = \frac{\text{Composite Score (Round to nearest whole number)}}{\text{Composite Score (Round to nearest whole number)}}$$

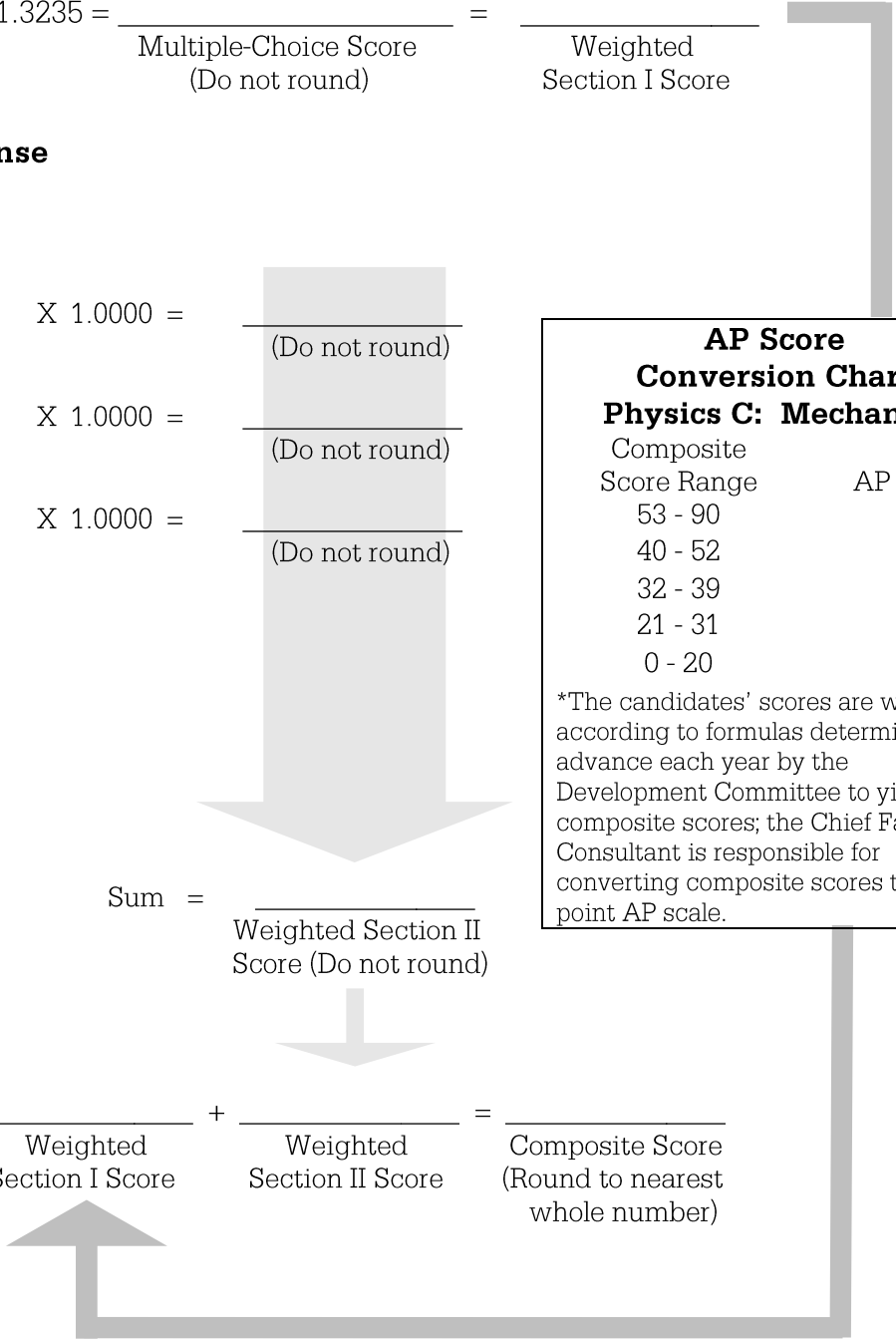


Table 4.2 – Physics C: Electricity and Magnetism Scoring Worksheet (page 222)

Please use the following in place of the scoring worksheet found on page 222 in the AP Physics C: E&M 1998 Released Exam. The worksheet found within the printed book itself should not be used because beginning with the May 2011 administration of AP Exams, the method for scoring the multiple-choice section has changed. Beginning in 2011, total scores on the multiple-choice section are based on the number of questions answered correctly. Points are no longer deducted for incorrect answers and, as always, no points are awarded for unanswered questions.

Section I: Multiple-Choice

$$\frac{\text{Number Correct (out of 35)}}{\text{Number Correct (out of 35)}} \times 1.2857 = \frac{\text{Multiple-Choice Score (Do not round)}}{\text{Multiple-Choice Score (Do not round)}} = \frac{\text{Weighted Section I Score}}{\text{Weighted Section I Score}}$$

Section II: Free Response

Question 1 $\frac{\text{Score}}{\text{(out of 15)}} \times 1.0000 = \frac{\text{Score}}{\text{(Do not round)}}$

Question 2 $\frac{\text{Score}}{\text{(out of 15)}} \times 1.0000 = \frac{\text{Score}}{\text{(Do not round)}}$

Question 3 $\frac{\text{Score}}{\text{(out of 15)}} \times 1.0000 = \frac{\text{Score}}{\text{(Do not round)}}$

Sum = $\frac{\text{Sum of Scores}}{\text{Sum of Scores}} = \frac{\text{Weighted Section II Score (Do not round)}}{\text{Weighted Section II Score (Do not round)}}$

Composite Score $\frac{\text{Weighted Section I Score}}{\text{Weighted Section I Score}} + \frac{\text{Weighted Section II Score}}{\text{Weighted Section II Score}} = \frac{\text{Composite Score (Round to nearest whole number)}}{\text{Composite Score (Round to nearest whole number)}}$

AP Score Conversion Chart Physics C: Electricity and Magnetism 1998

Composite Score Range	AP Score
56 - 90	5
45 - 55	4
35 - 44	3
25 - 34	2
0 - 24	1

*The candidates' scores are weighted according to formulas determined in advance each year by the Development Committee to yield raw composite scores; the Chief Faculty Consultant is responsible for converting composite scores to the 5-point AP scale.

Table 4.4—Physics B Section I Scores and AP Scores (page 224)

Due to the changes in multiple-choice scoring, the range of scores in Table 4.4 have changed, though the percentages remain the same. Please find the revised range of multiple-choice scores in the table below.

For a given range of multiple-choice scores, this table shows the percentage of students receiving each AP score. If you have calculated the multiple-choice score (**Weighted Section I Score**) by using the formula shown in Table 4.2, you can use this table to figure out the most likely score that the student would receive based only on that multiple-choice score.

Physics B: Mechanics

Multiple-Choice Score	AP Score					Total
	1	2	3	4	5	
48 to 90	0.0%	0.0%	0.9%	13.4%	85.7%	14.4%
41 to 47	0.0%	0.2%	19.1%	62.6%	18.2%	19.2%
31 to 40	1.1%	11.4%	71.7%	15.6%	0.1%	31.7%
27 to 30	18.4%	49.9%	31.6%	0.1%	0.0%	13.9%
0 to 26	79.6%	17.8%	2.6%	0.0%	0.0%	20.8%
Total	19.5%	14.3%	31.5%	18.9%	15.9%	100.0%

Physics C: Mechanics

Multiple-Choice Score	AP Score					Total
	1	2	3	4	5	
23 to 45	0.0%	0.0%	0.3%	11.6%	88.0%	23.7%
22 to 27	0.0%	0.6%	16.6%	63.6%	19.3%	24.0%
18 to 21	0.1%	12.8%	59.7%	27.2%	0.3%	16.7%
14 to 17	10.3%	56.9%	31.3%	1.5%	0.0%	18.0%
0 to 13	78.3%	20.6%	1.2%	0.0%	0.0%	17.7%
Total	15.7%	16.1%	19.8%	22.8%	25.5%	100.0%

Physics C: Electricity and Magnetism

Multiple-Choice Score	AP Score					Total
	1	2	3	4	5	
29 to 45	0.0%	0.0%	0.6%	13.9%	85.4%	24.1%
24 to 28	0.0%	1.7%	17.4%	60.0%	20.9%	22.3%
20 to 23	0.0%	21.1%	43.6%	33.8%	1.5%	15.6%
15 to 19	10.0%	60.8%	23.6%	5.4%	0.1%	22.5%
0 to 14	76.6%	22.2%	1.2%	0.0%	0.0%	15.5%
Total	14.1%	20.8%	16.3%	23.2%	25.5%	100.0%

How AP Scores Are Determined (page 219): A Change to How the Score on Section I is Calculated

The information on how AP scores are determined have remained largely unchanged. The only portion that has changed is step one, described on page 219, which indicates how the score on Section I is calculated. No points are deducted for incorrect answers in the multiple-choice section. For Physics B, the maximum possible weighted score is 90 points, and it accounts for one-half of the maximum possible composite score. For both Physics C: Mechanics and Physics C: Electricity and Magnetism, the maximum possible weighted score is 45 points, and it accounts for one-half of the maximum possible composite score.

NOTE: Please refer to the printed book for a full explanation of how AP scores are determined, including a detailed description of all the steps in the process of calculating the composite score and converting it to an AP score.