

## Table 8.2B – Physics B Scoring Worksheet (page 233)

Please use the following in place of the scoring worksheet found on page 233 in the AP Physics B 2009 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

$$\frac{\text{Number Correct (out of 69)}}{\text{Number Correct (out of 69)}} \times 1.3043 = \frac{\text{Weighted Section I Score (Do not round)}}{\text{Weighted Section I Score (Do not round)}}$$

### Section II: Free Response

Question 1	_____ (out of 15)	X 1.1250 =	_____ (Do not round)
Question 2	_____ (out of 10)	X 1.1250 =	_____ (Do not round)
Question 3	_____ (out of 15)	X 1.1250 =	_____ (Do not round)
Question 4	_____ (out of 10)	X 1.1250 =	_____ (Do not round)
Question 5	_____ (out of 10)	X 1.1250 =	_____ (Do not round)
Question 6	_____ (out of 10)	X 1.1250 =	_____ (Do not round)
Question 7	_____ (out of 10)	X 1.1250 =	_____ (Do not round)
Sum =			_____ (Do not round)
			Weighted Section II Score (Do not round)

<b>AP Score Conversion Chart Physics B</b>	
Composite Score Range	AP Score
112 - 180	5
85 - 111	4
57 - 84	3
40 - 56	2
0 - 39	1

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

**Table 8.4B—Physics B Section I Scores and AP Scores (page 234)**

Due to the changes in multiple-choice scoring, the range of scores in Table 8.4 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.

Multiple-Choice Score	AP Score					Total
	1	2	3	4	5	
78 to 90	0.0%	0.0%	0.0%	1.0%	99.0%	1.9%
65 to 77	0.0%	0.0%	0.2%	13.8%	85.9%	9.8%
52 to 64	0.0%	0.0%	11.4%	68.7%	19.9%	17.8%
39 to 51	0.0%	4.7%	74.6%	20.6%	0.2%	23.5%
27 to 38	10.4%	58.5%	31.0%	0.2%	0.0%	25.1%
0 to 26	86.4%	13.5%	0.2%	0.0%	0.0%	21.9%
Total	21.5%	18.7%	27.4%	18.5%	13.9%	100.0%

## Table 8.2CM – Physics C: Mechanics Scoring Worksheet (page 236)

Please use the following in place of the scoring worksheet found on page 236 in the AP Physics C 2009 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

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

### Section II: Free Response

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

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

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

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

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

<b>AP Score Conversion Chart</b>	
<b>Physics C: Mechanics</b>	
Composite Score Range	AP Score
50 - 90	5
39 - 49	4
31 - 38	3
23 - 30	2
0 - 22	1

### Table 8.4CM— Physics C: Mechanics Section I Scores and AP Scores (page 237)

Due to the changes in multiple-choice scoring, the range of scores in Table 8.4 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.

Multiple-Choice Score	AP Score					Total
	1	2	3	4	5	
40 to 45	0.0%	0.0%	0.0%	0.3%	99.7%	2.4%
33 to 39	0.0%	0.0%	0.1%	3.4%	96.5%	11.2%
26 to 32	0.0%	0.2%	5.7%	50.3%	43.9%	24.6%
19 to 25	0.4%	15.0%	46.8%	35.6%	2.2%	32.6%
13 to 18	31.9%	48.2%	18.9%	1.0%	0.0%	19.8%
0 to 12	92.1%	7.7%	0.2%	0.0%	0.0%	9.5%
Total	15.2%	15.2%	20.4%	24.5%	24.7%	100.0%

## Table 8.2CE – Physics C: Electricity and Magnetism Scoring Worksheet (page 239)

Please use the following in place of the scoring worksheet found on page 239 in the AP Physics C: E&M 2009 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

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

### Section II: Free Response

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

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

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

<b>AP Score Conversion Chart Physics C: Electricity and Magnetism</b>	
Composite Score Range	AP Score
53 - 90	5
39 - 52	4
32 - 38	3
20 - 31	2
0 - 19	1

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

### Composite Score

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

**Table 8.4CE— Physics C: Electricity and Magnetism  
Section I Scores and AP Scores (page 240)**

Due to the changes in multiple-choice scoring, the range of scores in Table 8.4 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.

Multiple-Choice Score	AP Score					Total
	1	2	3	4	5	
40 to 45	0.0%	0.0%	0.0%	0.0%	100.0%	4.7%
33 to 39	0.0%	0.0%	0.0%	2.0%	98.0%	13.5%
27 to 32	0.0%	0.2%	0.8%	31.1%	68.0%	19.4%
20 to 26	0.0%	5.5%	17.4%	66.5%	10.6%	25.8%
14 to 19	5.1%	49.9%	28.7%	16.3%	0.0%	20.4%
0 to 13	64.8%	32.2%	2.6%	0.4%	0.0%	16.2%
Total	11.5%	16.9%	10.9%	26.8%	33.9%	100.0%

## **How AP Scores Are Determined (page 241): 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 241, which indicates how the score on Section I is calculated. No points are deducted for incorrect answers in the multiple-choice section. The weighted maximum possible score on Section I is 90 points for Physics B and 45 points for both Physics C Exams, and it accounts for 50 percent of the maximum 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.