

ASPECT

Assessing Students' Progress on the Energy Concept

Bouncing Ball Task: AP16-6

Summary of Student Performance

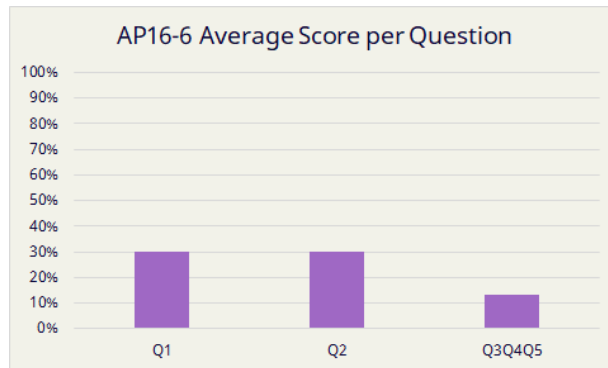
FIELD TEST

This task was administered to students during field tests conducted in the spring of 2021 and 2022. In 2021, over 2,300 students in grades 4 through 12 in the classrooms of 50 teachers from 27 states across the U.S. participated in the field testing. In 2022, over 1,500 students in grades 4 through 12 in the classrooms of 44 teachers from 16 states and Puerto Rico participated.

The data presented here are from the 213 students who responded to the task. Approximately 0% of the students were in elementary school, 53% were in middle school, and 45% were in high school. The graphs below present the mean percent correct for students in different categories. The percent correct was determined by summing the points earned on each question and dividing by the total possible points for the question. Students self-identified their gender and whether English was their primary language.

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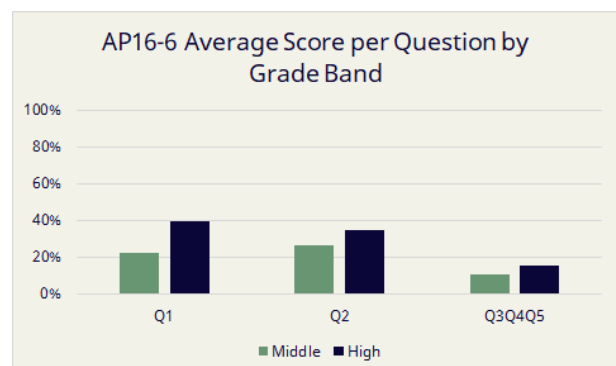
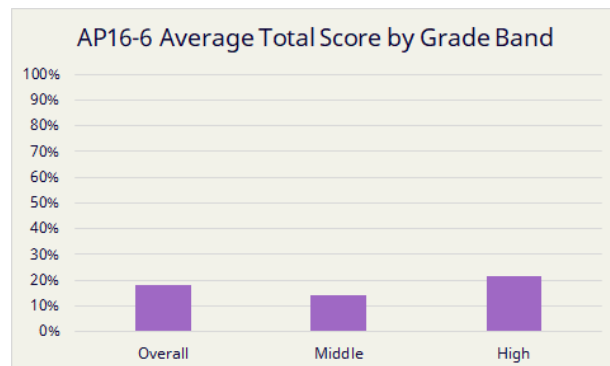
OVERALL PERFORMANCE



Performance	# of students	Q1	Q2	Q3Q4Q5	Total*
Overall	213	30%	30%	13%	18%

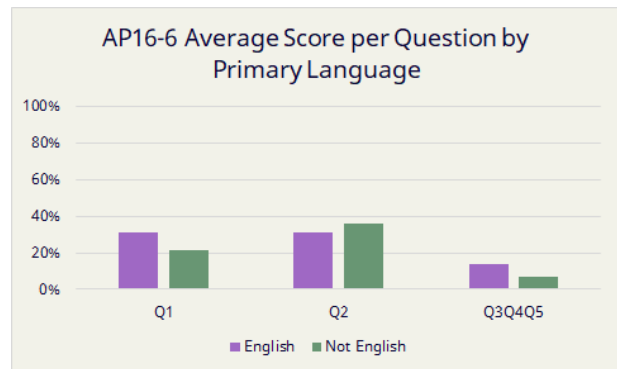
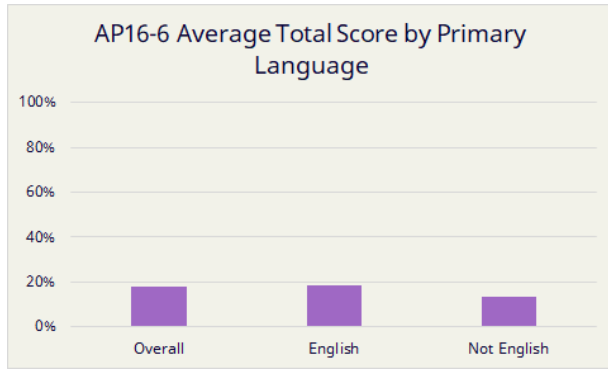
*Total percentage was calculated by adding the number of points earned across the questions divided by the total number of points available. (Note that some questions had more points than others.)

PERFORMANCE BY GRADE BAND



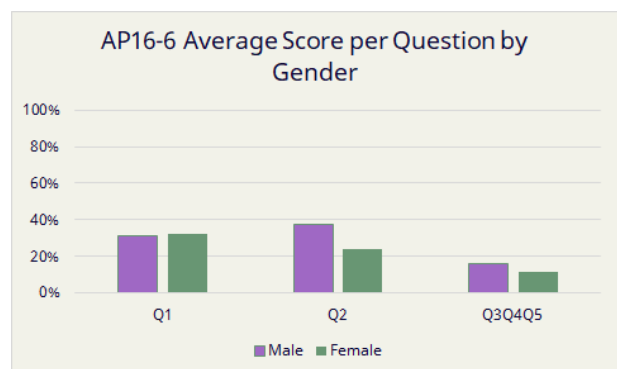
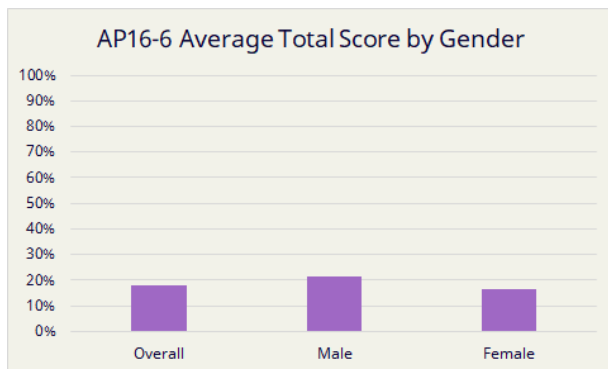
Grade Band	# of students	Q1	Q2	Q3Q4Q5	Total
Elementary	0	-	-	-	-
Middle	113	22%	27%	10%	14%
High	96	40%	34%	15%	22%

PERFORMANCE BY PRIMARY LANGUAGE



Primary Language	# of students	Q1	Q2	Q3Q4Q5	Total
English	183	31%	31%	13%	19%
Not English	14	21%	36%	7%	13%

PERFORMANCE BY GENDER



Gender	# of students	Q1	Q2	Q3Q4Q5	Total
Male	99	31%	37%	16%	21%
Female	87	32%	24%	11%	16%