

# ASPECT

Assessing Students' Progress on the Energy Concept

## Hibernating Bears Task: AP42-6

### Summary of Student Performance

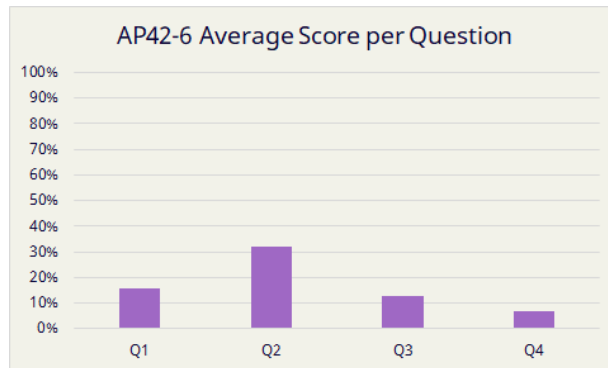
#### FIELD TEST

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 219 students who responded to the task. Approximately 21% of the students were in elementary school, 41% were in middle school, and 39% 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.

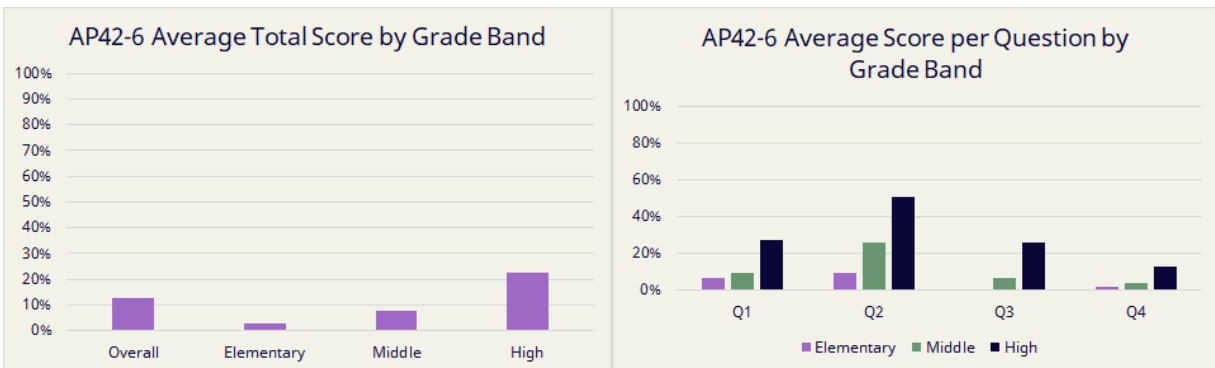
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## OVERALL PERFORMANCE



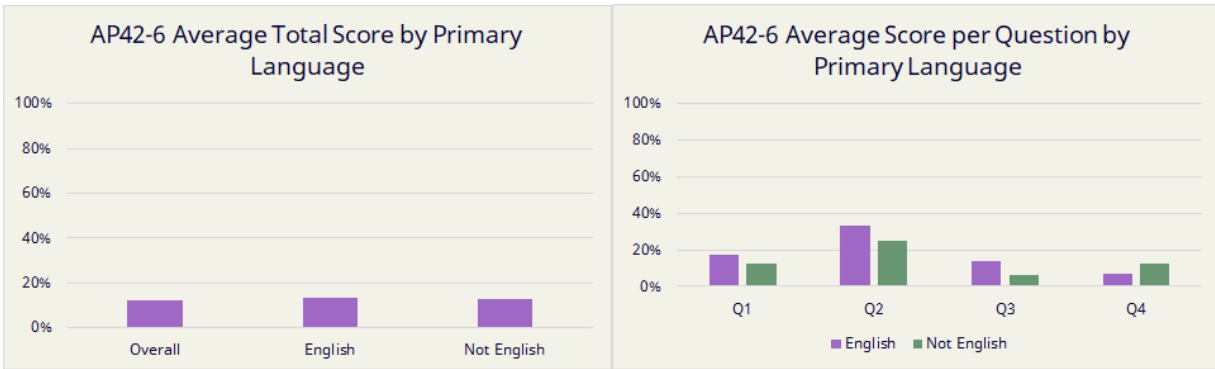
Performance	# of students	Q1	Q2	Q3	Q4	Task
Overall	219	16%	32%	13%	7%	12%

## PERFORMANCE BY GRADE BAND



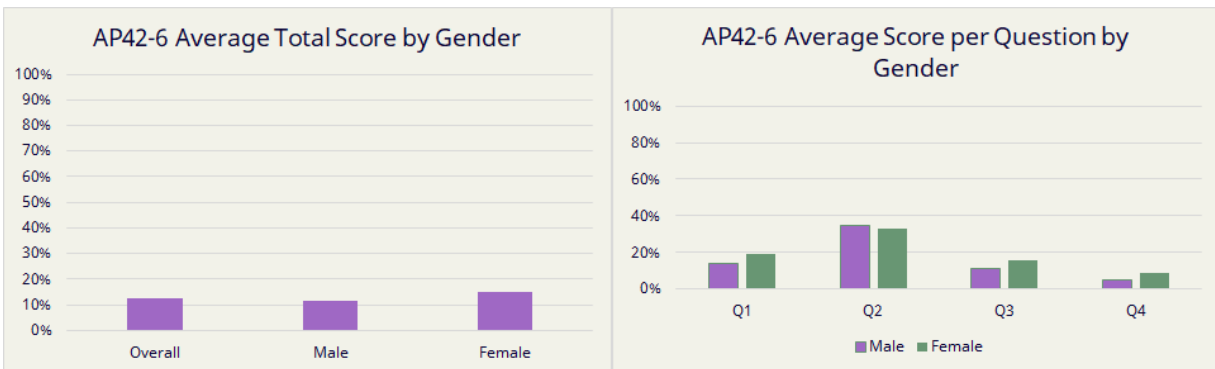
Grade Band	# of students	Q1	Q2	Q3	Q4	Total
Elementary	45	7%	9%	0%	2%	3%
Middle	89	9%	26%	6%	4%	8%
High	85	27%	51%	26%	12%	22%

## PERFORMANCE BY PRIMARY LANGUAGE



Primary Language	# of students	Q1	Q2	Q3	Q4	Total
English	191	17%	33%	14%	7%	13%
Not English	8	13%	25%	6%	13%	13%

## PERFORMANCE BY GENDER



Gender	# of students	Q1	Q2	Q3	Q4	Total
Male	101	14%	35%	11%	5%	11%
Female	94	19%	33%	15%	9%	15%