



Coherence and Alignment Among Science Curriculum, Instruction, and Assessment (CASCIA) Project

Grade 8 Unit 1: Forces and Energy

Task 1 Prompt 2 Part A Scored and Annotated Anchor Set

July 2024

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CASCIA Grade 8 EOU Assessment 1 Task 1: Storing Grocery Carts

Prompt 2 Part A Score Point 3

Prompt 2 Part A Rubric

Prompt	Score Point 0	Score Point 1	Score Point 2	Score Point 3	Score Point 4
Prompt 2 Part A.	No aspect of the response is correct	Response includes one (1) of the three (3) key aspects	Response includes two (2) of the three (3) key aspects	Response includes the following key aspects: - Explains that Solution 1 does meet the budget constraint - Explains that Solution 1 does meet the time requirements - Explains that Solution 1 will not reduce the damage to the wall	NA

Score Point 3 (3/3 aspects met)

- Part A
 - Explains that Solution 1 does meet the budget constraint.
 - Explains that Solution 1 does meet the time requirements.
 - Explains that Solution 1 will not reduce the damage to the wall.

Part A.

Evaluate how well Potential Design Solution #1 meets each of the three requirements. If any requirements are not met, explain why they are not met. Use the information in **Table 1** as evidence to support your evaluation.

Potential Design Solution #1:

Purchase the cart corrals with bumpers.

The cart corral is only \$3,900 which is \$100 under budget. The shipping and installation time is 2-4 weeks and the preferred time is 4-6 weeks. Although this meets up requirements, the store walls need to be protected. So this would not be a perfect fit because it is located in the parking lot.

CASCIA Grade 8 EOU Assessment 1 Task 1: Storing Grocery Carts

Prompt 2 Part A Score Point 2

Prompt 2 Part A Rubric

Prompt	Score Point 0	Score Point 1	Score Point 2	Score Point 3	Score Point 4
Prompt 2 Part A.	No aspect of the response is correct	Response includes one (1) of the three (3) key aspects	Response includes two (2) of the three (3) key aspects	Response includes the following key aspects: - Explains that Solution 1 does meet the budget constraint - Explains that Solution 1 does meet the time requirements - Explains that Solution 1 will not reduce the damage to the wall	NA

Score Point 2 (2/3 aspects met)

- Part A
 - Explains that Solution 1 does meet the budget constraint.
 - Explains that Solution 1 does meet the time requirements.
 - Does **NOT** explain that Solution 1 will not reduce the damage to the wall.

Part A.

Evaluate how well Potential Design Solution #1 meets each of the three requirements. If any requirements are not met, explain why they are not met. Use the information in Table 1 as evidence to support your evaluation.

Potential Design Solution #1:

Purchase the cart corrals with bumpers.

The cart corral with bumper could work because it is under \$4,000. It can also stop damage on store wall because it will be outside not inside. Finally it will take less than 6 weeks.

CASCIA Grade 8 EOU Assessment 1 Task 1: Storing Grocery Carts

Prompt 2 Part A Score Point 1

Prompt 2 Part A Rubric

Prompt	Score Point 0	Score Point 1	Score Point 2	Score Point 3	Score Point 4
Prompt 2 Part A.	No aspect of the response is correct	Response includes one (1) of the three (3) key aspects	Response includes two (2) of the three (3) key aspects	Response includes the following key aspects: - Explains that Solution 1 does meet the budget constraint - Explains that Solution 1 does meet the time requirements - Explains that Solution 1 will not reduce the damage to the wall	NA

Score Point 1 (1/3 aspects met)

- Part A
 - Does **NOT** explain that Solution 1 does meet the budget constraint (i.e., The student states that Solution 1 is “way over budget.”).
 - Explains that Solution 1 does meet the time requirements.
 - Does **NOT** explain that Solution 1 will not reduce the damage to the wall.

Part A.

Evaluate how well Potential Design Solution #1 meets each of the three requirements. If any requirements are not met, explain why they are not met. Use the information in **Table 1** as evidence to support your evaluation.

Potential Design Solution #1:

Purchase the cart corrals with bumpers.

the cart corral with bumper is a good idea and the time to make it is in the requirements and it would also help with damage to the wall but the price is what is not good it is way over the budget.

CASCIA Grade 8 EOU Assessment 1 Task 1: Storing Grocery Carts

Prompt 2 Part A Score Point 0

Prompt 2 Part A Rubric

Prompt	Score Point 0	Score Point 1	Score Point 2	Score Point 3	Score Point 4
Prompt 2 Part A.	No aspect of the response is correct	Response includes one (1) of the three (3) key aspects	Response includes two (2) of the three (3) key aspects	Response includes the following key aspects: - Explains that Solution 1 does meet the budget constraint - Explains that Solution 1 does meet the time requirements - Explains that Solution 1 will not reduce the damage to the wall	NA

Score Point 0 (0/3 aspects met)

- Part A
 - Does **NOT** explain that Solution 1 does meet the budget constraint.
 - Does **NOT** explain that Solution 1 does meet the time requirements.
 - Does **NOT** explain that Solution 1 will not reduce the damage to the wall.

Part A.

Evaluate how well Potential Design Solution #1 meets each of the three requirements. If any requirements are not met, explain why they are not met. Use the information in **Table 1** as evidence to support your evaluation.

Potential Design Solution #1:

Purchase the cart corrals with bumpers.

the cart corral is great but
it won't stop people from not
putting the carts in the corral