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

Grade 5 Unit 1: Matter and Its Interactions

Task 3 Prompt 2 Scored and Annotated Anchor Set

August 2024

Grade 5 Unit 1: Matter and Its Interactions, Task 3 Prompt 2 Scored and Annotated Anchor Set was developed with funding from the U.S. Department of Education under the Competitive Grants for State Assessments Program CFDA 84.368A. The contents of this paper do not represent the policy of the U.S. Department of Education, and no assumption of endorsement by the Federal government should be made.

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Prompt 2 Rubric

Prompt	Score Point 0	Score Point 1	Score Point 2	Score Point 3	Score Point 4
Prompt 2	No aspect of the response is correct	Response includes one (1) of the four (4) aspects	Response includes two (2) of the four (4) aspects	Response includes three (3) of the four (4) aspects	Response includes the following aspects: Part A Completes bar graph to show Solution B as 48 grams AND Part B Circles "YES" Describes the combined mass of solutions A and B as 101 grams and the total mass of Jar C as 101 grams Personal Describes that mass is conserved or remains the same after mixing

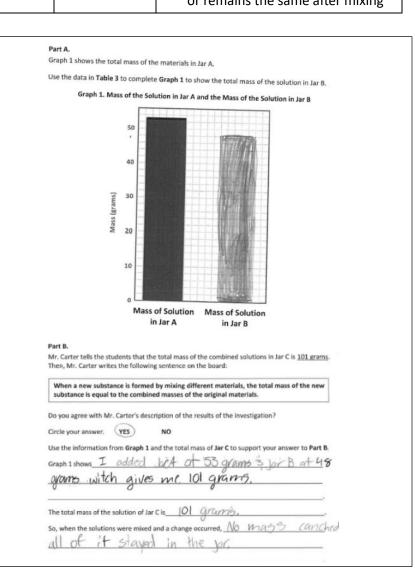
Score Point 4 (4/4 aspects met)

Part A

 Completes the bar graph correctly with 48 grams in Jar B.

Part B

- Circles "YES" to agree with Mr. Carter's statement.
- Describes the combined masses of Jar A and Jar B as 53 and 48 grams and the mass of Jar C as 101 grams.
- Describes that mass is conserved or remains the same (i.e., The student response includes "... no mass changed all of it stayed in the jar.").

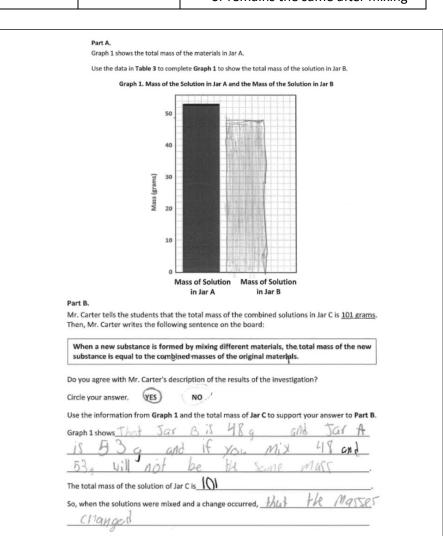


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Prompt 2	No aspect of the response is correct	Response includes one (1) of the four (4) aspects	Response includes two (2) of the four (4) aspects	Response includes three (3) of the four (4) aspects	Response includes the following aspects: Part A Completes bar graph to show Solution B as 48 grams AND Part B Circles "YES" Describes the combined mass of solutions A and B as 101 grams and the total mass of Jar C as 101 grams Pescribes that mass is conserved or remains the same after mixing

Score Point 3 (3/4 aspects met)

- Part A
 - Completes the bar graph correctly with 48 grams in Jar B.
- Part B
 - Circles "YES" to agree with Mr. Carter's statement.
 - Describes Jar A and Jar B
 with the correct mass in
 grams and that the total is
 101 grams when mixed
 together.
 - Does NOT describe that the mass is conserved or remains the same (i.e., ". . . that the masses changed.").

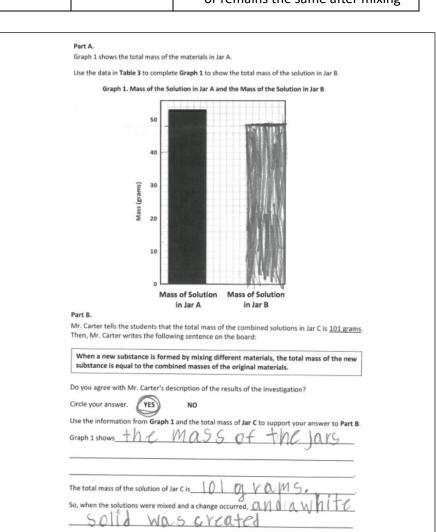


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Score Point 2 (2/4 aspects met)

- Part A
 - Completes the bar graph correctly with 48 grams in Jar B.
- Part B
 - Circles "YES" to agree with Mr. Carter's statement.
 - Does **NOT** describe the mass of the jars, only describes the total mass as 101 grams.
 - Does **NOT** describe that the mass is conserved or remains the same.

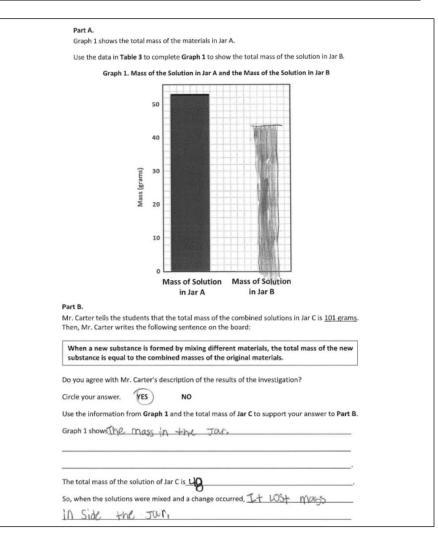


Prompt 2 Rubric

Prompt	Score Point 0	Score Point 1	Score Point 2	Score Point 3	Score Point 4
Prompt 2	No aspect of the response is correct	Response includes one (1) of the four (4) aspects	Response includes two (2) of the four (4) aspects	Response includes three (3) of the four (4) aspects	Response includes the following aspects: Part A Completes bar graph to show Solution B as 48 grams AND Part B Circles "YES" Describes the combined mass of solutions A and B as 101 grams and the total mass of Jar C as 101 grams Pescribes that mass is conserved or remains the same after mixing

Score Point 1 (1/4 aspects met)

- Part A
 - Does **NOT** complete the bar graph correctly to show 48 grams.
- Part B
 - Circles "YES" to agree with Mr. Carter's statement.
 - Does **NOT** describe the mass in Jars A and B as 48 and 53 grams **and** does
 NOT describe the total mass of Jar C as 101 grams (i.e., "48.").
 - Does **NOT** describe that the mass is conserved or remains the same (i.e., The student response includes ". . . it lost mass inside the jar.").



Prompt 2 Rubric

Prompt	Score Point 0	Score Point 1	Score Point 2	Score Point 3	Score Point 4
Prompt 2	No aspect of the response is correct	Response includes one (1) of the four (4) aspects	Response includes two (2) of the four (4) aspects	Response includes three (3) of the four (4) aspects	Response includes the following aspects: Part A Completes bar graph to show Solution B as 48 grams AND Part B Circles "YES" Describes the combined mass of solutions A and B as 101 grams and the total mass of Jar C as 101 grams Pescribes that mass is conserved or remains the same after mixing

Score Point 0 (0/4 aspects met)

- Part A
 - Does **NOT** complete the bar graph correctly.
- Part B
 - Does **NOT** circle "YES" to agree with Mr. Carter's statement.
 - Does NOT describe the mass in Jars A and B as 48 and 53 grams and does NOT describe the total mass of Jar C as 101 grams.
 - Does **NOT** describe that mass is conserved or remains the same after mixing (i.e., The student response includes "... substance was formed.").

