



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

Grade 5 Unit 1: Matter and Its Interactions

Task 1 Prompt 3 Scored and Annotated Anchor Set

July 2024

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CASCIA Grade 5 EOU Assessment 1 Task 1: What's the Matter?

Prompt 3 Score Point 3

Prompt 3 Rubric

Prompt	Score Point 0	Score Point 1	Score Point 2	Score Point 3	Score Point 4
Prompt 3	No aspect of the response is correct	Response includes one (1) of the three (3) aspects	Response includes two (2) of the three (3) aspects	Response includes the following aspects: • Solid B needs to be mixed with both liquids • Solid B must dissolve in both liquids • Only powdered sugar dissolves in both liquids OR • Solid B needs to be mixed with vinegar • Solid B must dissolve in vinegar • Only powdered sugar dissolves in vinegar	NA

Score Point 3 (3/3 aspects met)

- Includes mixing vinegar with Solid B.
- Includes the purpose of mixing Solid B with vinegar (i.e., "... it would dissolve if I mixed it.").
- Includes Solid B in vinegar as evidence.

Prompt 3

Which mixtures and observations would determine that **Solid B** is powdered sugar? Use **Table 1** and the completed **Diagram 1** to support your explanation.

I would mix **Solid B** with vinegar because

it would dissolve if I mixed it.

I will know **Solid B** is powdered sugar if it dissolves when I add vinegar.

CASCIA Grade 5 EOU Assessment 1 Task 1: What's the Matter?

Prompt 3 Score Point 2

Prompt 3 Rubric

Prompt	Score Point 0	Score Point 1	Score Point 2	Score Point 3	Score Point 4
Prompt 3	No aspect of the response is correct	Response includes one (1) of the three (3) aspects	Response includes two (2) of the three (3) aspects	Response includes the following aspects: • Solid B needs to be mixed with both liquids • Solid B must dissolve in both liquids • Only powdered sugar dissolves in both liquids OR • Solid B needs to be mixed with vinegar • Solid B must dissolve in vinegar • Only powdered sugar dissolves in vinegar	NA

Score Point 2 (2/3 aspects met)

- Includes mixing both water and vinegar with Solid B.
- Does **NOT** include the purpose of the mixture to test if Solid B dissolved (i.e., The student response includes “. . . solvents that they gave us.”).
- Includes Solid B dissolves in both water and vinegar as evidence.

Prompt 3

Which mixtures and observations would determine that Solid B is powdered sugar? Use Table 1 and the completed Diagram 1 to support your explanation.

I would mix Solid B with water and vinegar because those are the solvents that they gave us.

I will know Solid B is powdered sugar if it dissolves if mixed with both solvents.

CASCIA Grade 5 EOU Assessment 1 Task 1: What's the Matter?

Prompt 3 Score Point 1

Prompt 3 Rubric

Prompt	Score Point 0	Score Point 1	Score Point 2	Score Point 3	Score Point 4
Prompt 3	No aspect of the response is correct	Response includes one (1) of the three (3) aspects	Response includes two (2) of the three (3) aspects	Response includes the following aspects: • Solid B needs to be mixed with both liquids • Solid B must dissolve in both liquids • Only powdered sugar dissolves in both liquids OR • Solid B needs to be mixed with vinegar • Solid B must dissolve in vinegar • Only powdered sugar dissolves in vinegar	NA

Score Point 1 (1/3 aspects met)

- Includes mixing both water and vinegar with Solid B.
- Does **NOT** include the purpose of the mixture to test if Solid B dissolved (i.e., The student response includes “. . . it will form a white mixture.”).
- Does **NOT** include that Solid B dissolves in both water and vinegar as evidence.

Prompt 3

Which mixtures and observations would determine that Solid B is powdered sugar? Use Table 1 and the completed Diagram 1 to support your explanation.

I would mix Solid B with Water and Vinegar because it will form a white mixture.
 I will know Solid B is powdered sugar if it forms a white mixture

CASCIA Grade 5 EOU Assessment 1 Task 1: What's the Matter?

Prompt 3 Score Point 0

Prompt 3 Rubric

Prompt	Score Point 0	Score Point 1	Score Point 2	Score Point 3	Score Point 4
Prompt 3	No aspect of the response is correct	Response includes one (1) of the three (3) aspects	Response includes two (2) of the three (3) aspects	Response includes the following aspects: • Solid B needs to be mixed with both liquids • Solid B must dissolve in both liquids • Only powdered sugar dissolves in both liquids OR • Solid B needs to be mixed with vinegar • Solid B must dissolve in vinegar • Only powdered sugar dissolves in vinegar	NA

Score Point 0 (0/3 aspects met)

- Does **NOT** include mixing with water and vinegar or only vinegar.
- Does **NOT** include the purpose of the mixture to test if Solid B dissolved (i.e., The student response includes “. . . it forms a white mixture.”).
- Does **NOT** include that Solid B dissolves in both water and vinegar or only vinegar as evidence.

Prompt 3

Which mixtures and observations would determine that **Solid B** is powdered sugar? Use **Table 1** and the completed **Diagram 1** to support your explanation.

I would mix **Solid B** with water because it forms a white mixture.

I will know **Solid B** is powdered sugar if I mix water with it and it turns into a white mixture.