



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

Grade 5 Unit 1: Matter and Its Interactions

Task 2 Prompt 3 Parts A & B Scored and Annotated Anchor Set

July 2024

Grade 5 Unit 1: Matter and Its Interactions, Task 2 Prompt 3 Parts A & B 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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CASCIA Grade 5 EOU Assessment 1 Task 2: What Just Happened?

Prompt 3 Parts A & B Score Point 3

Prompt 3 Parts A & B Rubric

Prompt	Score Point 0	Score Point 1	Score Point 2	Score Point 3	Score Point 4
Prompt 3 Part A. & Part B.	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: Part A - Correctly identifies the material of one of the containers - Evidence to support the determination of the material for one container is based on information from Table 1 and Table 2 AND Part B - Measuring change in temperature or rate of heat flow as the most useful measurement and surface description as the most useful observation to identify the material	NA

Score Point 3 (3/3 aspects met)

- Part A
 - Correctly identifies B as foam.
 - Supports the choice with evidence from Table 1 and evidence from Table 2 (i.e., description of properties).
- Part B
 - Indicates that the most useful measurement is the rate of heat flow **and** that the most useful observation is the properties of the material.

Prompt 3

Part A.

Table 2 shows the properties of three different materials used to make drinking containers.

Table 2. Properties of Drinking Container Materials

Material	Properties
Foam	- extremely light weight and flexible - usually white in color - very low heat flow
Metal	- moderately light material - shiny surface - high heat flow
Plastic	- light weight material - may be transparent - low heat flow

Use the results from Table 1 and information from Table 2 to identify the material used to make **one** of the drinking containers used in the investigation. Compare the data from all three drinking containers to explain how you identified the material.

The material used to make Drinking Container B is foam.

I know this because B is white color, had very low heat flow. All of this information is some on tables 1 and 2.

Part B.

Which measurements **AND** observations are the most useful to identify the material used to make the drinking container?

The most useful measurements are because it has low heat flow.

The most useful observations are were the properties that make up materials.

CASCIA Grade 5 EOU Assessment 1 Task 2: What Just Happened?

Prompt 3 Parts A & B Score Point 2

Prompt 3 Parts A & B Rubric

Prompt	Score Point 0	Score Point 1	Score Point 2	Score Point 3	Score Point 4
Prompt 3 Part A. & Part B.	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: Part A - Correctly identifies the material of one of the containers - Evidence to support the determination of the material for one container is based on information from Table 1 and Table 2 AND Part B - Measuring change in temperature or rate of heat flow as the most useful measurement and surface description as the most useful observation to identify the material	NA

Score Point 2 (2/3 aspects met)

- Part A
 - Correctly identifies C as metal.
 - Supports the choice with evidence from Table 1 and evidence from Table 2 (i.e., description of properties).
- Part B
 - Correctly indicates that the most useful measurement is temperature (i.e., Fahrenheit measurements) but does **NOT** include that the most useful observation is the properties of the material.

Prompt 3

Part A.

Table 2 shows the properties of three different materials used to make drinking containers.

Table 2. Properties of Drinking Container Materials

Material	Properties
Foam	- extremely light weight and flexible - usually white in color - very low heat flow
Metal	- moderately light material - shiny surface - high heat flow
Plastic	- light weight material - may be transparent - low heat flow

Use the results from Table 1 and information from Table 2 to identify the material used to make **one** of the drinking containers used in the investigation. Compare the data from all three drinking containers to explain how you identified the material.

The material used to make Drinking Container C is Metal

I know this because Metal dents and is bright silver and lost the most heat.

Part B.

Which measurements **AND** observations are the most useful to identify the material used to make the drinking container?

The most useful measurements are the fahrenheit measurements.

The most useful observations are the tables and the measurements were the most useful.

CASCIA Grade 5 EOU Assessment 1 Task 2: What Just Happened?

Prompt 3 Parts A & B Score Point 1

Prompt 3 Parts A & B Rubric

Prompt	Score Point 0	Score Point 1	Score Point 2	Score Point 3	Score Point 4
Prompt 3 Part A. & Part B.	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: Part A - Correctly identifies the material of one of the containers - Evidence to support the determination of the material for one container is based on information from Table 1 and Table 2 AND Part B - Measuring change in temperature or rate of heat flow as the most useful measurement and surface description as the most useful observation to identify the material	NA

Score Point 1 (1/3 aspects met)

- Part A
 - Correctly identifies A as plastic.
 - Does **NOT** support the choice with evidence from Tables 1 and 2.
- Part B
 - Does **NOT** make a correct statement about the most useful measurement and does **NOT** correctly indicate the most useful observation (i.e., The student includes a property of metal rather than plastic.).

Prompt 3

Part A.

Table 2 shows the properties of three different materials used to make drinking containers.

Table 2. Properties of Drinking Container Materials

Material	Properties
Foam	- extremely light weight and flexible - usually white in color - very low heat flow
Metal	- moderately light material - shiny surface - high heat flow
Plastic	- light weight material - may be transparent - low heat flow

Use the results from Table 1 and information from Table 2 to identify the material used to make one of the drinking containers used in the investigation. Compare the data from all three drinking containers to explain how you identified the material.

The material used to make Drinking Container A is plastic.

I know this because lot of cups keep the heat or the cold ness in the cup.

Part B.

Which measurements **AND** observations are the most useful to identify the material used to make the drinking container?

The most useful measurements are metal is the most useful measurements.

The most useful observations are That it could be dented and its shiny.

CASCIA Grade 5 EOU Assessment 1 Task 2: What Just Happened?

Prompt 3 Parts A & B Score Point 0

Prompt 3 Parts A & B Rubric

Prompt	Score Point 0	Score Point 1	Score Point 2	Score Point 3	Score Point 4
Prompt 3 Part A. & Part B.	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: Part A - Correctly identifies the material of one of the containers - Evidence to support the determination of the material for one container is based on information from Table 1 and Table 2 AND Part B - Measuring change in temperature or rate of heat flow as the most useful measurement and surface description as the most useful observation to identify the material	NA

Score Point 0 (0/3 aspects met)

- Part A
 - Does **NOT** correctly identify C as metal.
 - Does **NOT** support the choice with evidence from Tables 1 and 2.
- Part B
 - Does **NOT** correctly state the most useful measurement and does **NOT** correctly indicate the most useful observation.

Prompt 3

Part A.

Table 2 shows the properties of three different materials used to make drinking containers.

Table 2. Properties of Drinking Container Materials

Material	Properties
Foam	- extremely light weight and flexible - usually white in color - very low heat flow
Metal	- moderately light material - shiny surface - high heat flow
Plastic	- light weight material - may be transparent - low heat flow

Use the results from Table 1 and information from Table 2 to identify the material used to make **one** of the drinking containers used in the investigation. Compare the data from all three drinking containers to explain how you identified the material.

The material used to make Drinking Container C is Foam.

I know this because it is white and bendy.

Part B.

Which measurements **AND** observations are the most useful to identify the material used to make the drinking container?

The most useful measurements are Metal because it tells specific.

The most useful observations are Foam it tells us it is light weight.