



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

Grade 5 Unit 1: Matter and Its Interactions

Task 2 Prompt 1 Part B Scored and Annotated Anchor Set

July 2024

Grade 5 Unit 1: Matter and Its Interactions, Task 2 Prompt 1 Part 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.

All rights reserved. Any or all portions of this document may be reproduced and distributed without prior permission, provided the source is cited as: Coherence and Alignment Among Science Curriculum, Instruction, and Assessment (CASCIA) Project. (2024). *Grade 5 Unit 1: Matter and Its Interactions, Task 2 Prompt 1 Part B Scored and Annotated Anchor Set*. Lincoln, NE: Nebraska Department of Education.

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

Prompt 1 Part B Score Point 3

Prompt 1 Part B Rubric

Prompt	Score Point 0	Score Point 1	Score Point 2	Score Point 3	Score Point 4
Prompt 1 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: - Indicates that condensation is the movement of particles in the air to a surface - References the drawings of particle arrangements for water vapor and liquid water - Uses evidence to support an explanation that a single water particle is too small to be seen	NA

Score Point 3 (3/3 aspects met)

- Part B
 - Indicates that condensation is the movement of particles in the air to a surface (i.e., The student response describes that particles get closer together and become a liquid when it gets colder, which is a characteristic of condensation).
 - References the drawings of particle arrangements for water vapor and liquid water (i.e., The response describes that their drawing of gas particles is more spaced out compared to the drawing for water.).
 - Uses evidence to support an explanation that a single water particle is too small to be seen (i.e., The student states that "... particles are the same size ...").

Part B.

Explain how the process of condensation supports the idea that all single water particles are too small to be seen. Use your particle arrangement drawings to support your response.

According to My drawing the gas particles are the same size, but the particles are more spaced out, that water is closer together it is colder. the water is in the air as a gas but when it gets colder it becomes a liquid

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

Prompt 1 Part B Score Point 2

Prompt 1 Part B Rubric

Prompt	Score Point 0	Score Point 1	Score Point 2	Score Point 3	Score Point 4
Prompt 1 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: - Indicates that condensation is the movement of particles in the air to a surface - References the drawings of particle arrangements for water vapor and liquid water - Uses evidence to support an explanation that a single water particle is too small to be seen	NA

Score Point 2 (2/3 aspects met)

- Part B
 - Indicates that water particles are in the air and are moving which condense on the surface of the can.
 - Does **NOT** reference the drawings of particle arrangements for water vapor and liquid water.
 - Does use evidence to support an explanation that a single water particle is too small to be seen (i.e., The student explains that the water particles in the air form water vapor.).

Part B.

Explain how the process of condensation supports the idea that all single water particles are too small to be seen. Use your particle arrangement drawings to support your response.

Water particles are in the air and moving around. If you had a pop can out of the fridge after 5 min, there would be condensation on the can from water vapor in the air.

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

Prompt 1 Part B Score Point 1

Prompt 1 Part B Rubric

Prompt	Score Point 0	Score Point 1	Score Point 2	Score Point 3	Score Point 4
Prompt 1 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: - Indicates that condensation is the movement of particles in the air to a surface - References the drawings of particle arrangements for water vapor and liquid water - Uses evidence to support an explanation that a single water particle is too small to be seen	NA

Score Point 1 (1/3 aspects met)

- Part B
 - Does indicate that condensation is the movement of particles in the air to a surface.
 - Does **NOT** reference the drawings of particle arrangements for water vapor and liquid water.
 - Does **NOT** use evidence to support an explanation that a single water particle is too small to be seen (i.e., The student *attempts* to explain that the moisture that ends up on the cup is evidence that water is in the air.).

Part B.

Explain how the process of condensation supports the idea that all single water particles are too small to be seen. Use your particle arrangement drawings to support your response.

The water in the air is the moisture that ends up on your cup. The moisture from the air is the condensation on the cup.

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

Prompt 1 Part B Score Point 0

Prompt 1 Part B Rubric

Prompt	Score Point 0	Score Point 1	Score Point 2	Score Point 3	Score Point 4
Prompt 1 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: - Indicates that condensation is the movement of particles in the air to a surface - References the drawings of particle arrangements for water vapor and liquid water - Uses evidence to support an explanation that a single water particle is too small to be seen	NA

Score Point 0 (0/3 aspects met)

- Part B
 - Does **NOT** indicate that condensation is the movement of particles in the air to a surface.
 - Does **NOT** reference the drawings of particle arrangements for water vapor and liquid water.
- NOTE:** It is not clear that the student response is describing their drawings.
- Does **NOT** use evidence to support an explanation that a single water particle is too small to be seen.

Part B.

Explain how the process of condensation supports the idea that all single water particles are too small to be seen. Use your particle arrangement drawings to support your response.

When it's hot it sperates. When it is cold it stays toghter.