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

Grade 5 Unit 1: Matter and Its Interactions

Task 2 Prompt 1 Part A Scored and Annotated Anchor Set

July 2024

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

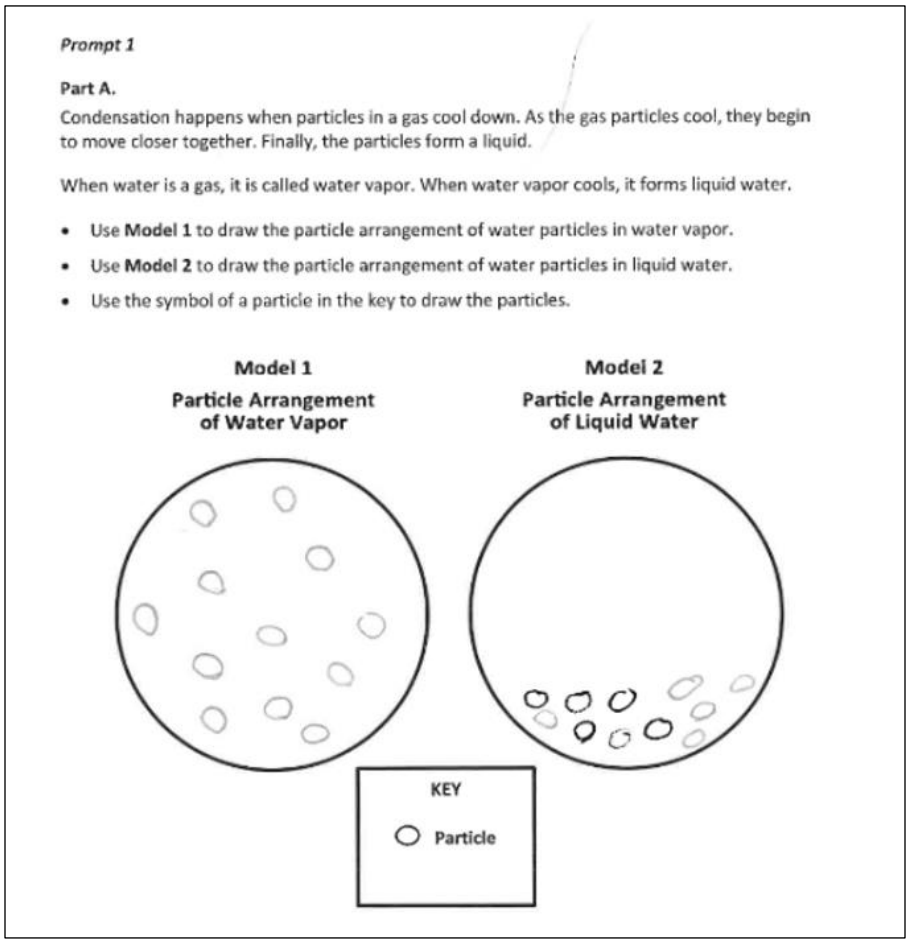
CASCIA Grade 5 EOU Assessment 1 Task 2: What Just Happened?
Prompt 1 Part A Score Point 2

Prompt 1 Part A Rubric

Prompt	Score Point 0	Score Point 1	Score Point 2	Score Point 3	Score Point 4
Prompt 1 Part A.	No aspect of the response is correct	Response includes **one (1)** of the **two (2)** aspects	The response includes the following aspects: • Model 1 shows the arrangement of water vapor particles spread widely apart and distributed throughout the drawing • Model 2 shows the arrangement of liquid water particles spread slightly apart	NA	NA

Score Point 2 (2/2 aspects met)

- Part A
  - Model 1 shows the arrangement of water vapor particles spread widely apart.
  - Model 2 shows the arrangement of liquid water particles spread less far apart than Model 1.



Prompt 1

Part A.

Condensation happens when particles in a gas cool down. As the gas particles cool, they begin to move closer together. Finally, the particles form a liquid.

When water is a gas, it is called water vapor. When water vapor cools, it forms liquid water.

- Use **Model 1** to draw the particle arrangement of water particles in water vapor.
- Use **Model 2** to draw the particle arrangement of water particles in liquid water.
- Use the symbol of a particle in the key to draw the particles.

CASCIA Grade 5 EOU Assessment 1 Task 2: What Just Happened?
Prompt 1 Part A Score Point 1

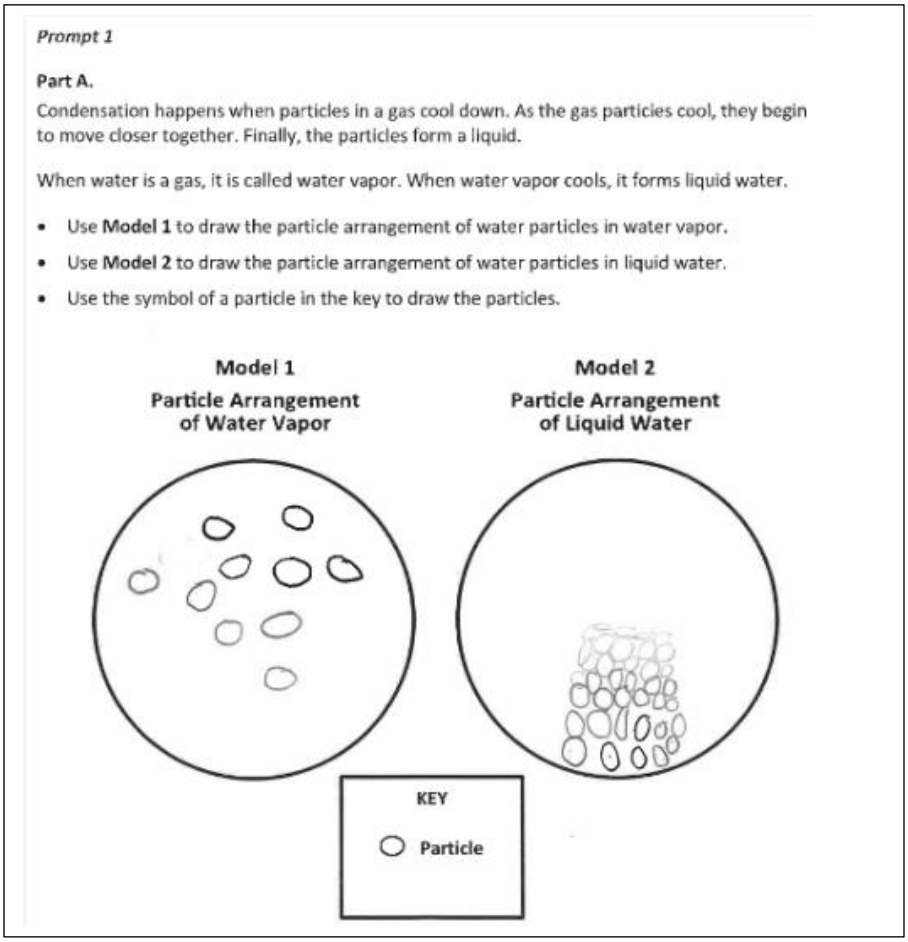
Prompt 1 Part A Rubric

Prompt	Score Point 0	Score Point 1	Score Point 2	Score Point 3	Score Point 4
Prompt 1 Part A.	No aspect of the response is correct	Response includes **one (1)** of the **two (2)** aspects	The response includes the following aspects: • Model 1 shows the arrangement of water vapor particles spread widely apart and distributed throughout the drawing • Model 2 shows the arrangement of liquid water particles spread slightly apart	NA	NA

Score Point 1 (1/2 aspects met)

- Part A
  - Model 1 shows the arrangement of water particles spread widely apart and distributed. throughout the drawing.
  - Model 2 does **NOT** accurately show liquid water particles spread slightly apart.

NOTE: The particle arrangement in Model 2 represents a solid rather than liquid water.



CASCIA Grade 5 EOU Assessment 1 Task 2: What Just Happened?
Prompt 1 Part A Score Point 0

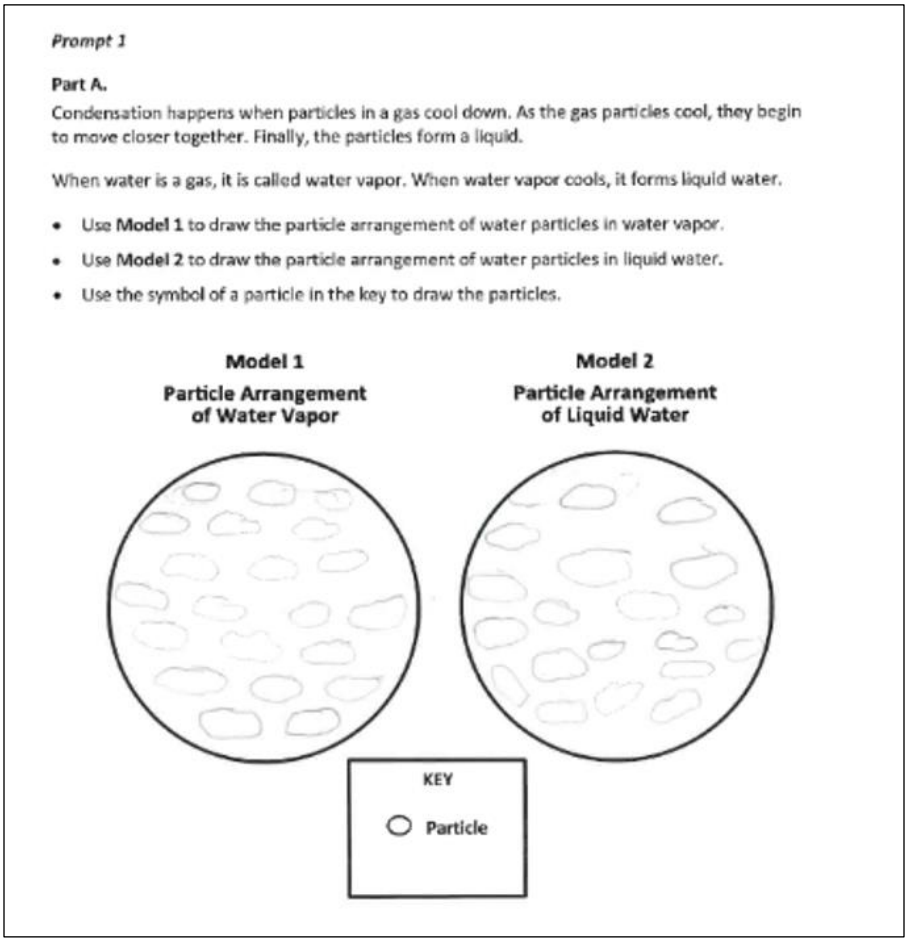
Prompt 1 Part A Rubric

Prompt	Score Point 0	Score Point 1	Score Point 2	Score Point 3	Score Point 4
Prompt 1 Part A.	No aspect of the response is correct	Response includes **one (1)** of the **two (2)** aspects	The response includes the following aspects: • Model 1 shows the arrangement of water vapor particles spread widely apart and distributed throughout the drawing • Model 2 shows the arrangement of liquid water particles spread slightly apart	NA	NA

Score Point 0 (0/2 aspects met)

- Part A
  - Model 1 does **NOT** show the arrangement of water vapor particles spread widely apart as compared to Model 2.
  - Model 2 does **NOT** accurately show liquid water particles spread slightly apart as compared to Model 1.

NOTE: The student's models of particle arrangements for both water vapor (gas) and water (liquid) are the same. An accurate judgment about the correctness of either model cannot be determined.



Prompt 1

Part A.

Condensation happens when particles in a gas cool down. As the gas particles cool, they begin to move closer together. Finally, the particles form a liquid.

When water is a gas, it is called water vapor. When water vapor cools, it forms liquid water.

- Use **Model 1** to draw the particle arrangement of water particles in water vapor.
- Use **Model 2** to draw the particle arrangement of water particles in liquid water.
- Use the symbol of a particle in the key to draw the particles.

Model 1
Particle Arrangement of Water Vapor

Model 2
Particle Arrangement of Liquid Water

KEY
Particle