



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

Grade 5 Unit 1: Matter and Its Interactions

Task 1 Prompt 1 Part C Scored and Annotated Anchor Set

July 2024

Grade 5 Unit 1: Matter and Its Interactions, Task 1 Prompt 1 Part C 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 1: What's the Matter?

Prompt 1 Part C Score Point 3

Prompt 1 Part C Rubric

Prompt	Score Point 0	Score Point 1	Score Point 2	Score Point 3	Score Point 4
Prompt 1 Part C.	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: • Circles "NO" • Uses the particle arrangement of matter to support their explanation • Uses the size of particles of matter to support their explanation	NA

Score Point 3 (3/3 aspects met)

- Part C
 - Circles "NO."
 - Uses particle arrangement in solids and liquids to support their explanation.
 - Uses the size of particles to support their explanation.

Part C.

Ms. Kim tells the students that we can see solids and liquids. Solids and liquids are also made of particles like gases. Then, a student says the following:

The particles of solids and liquids are arranged the same as gases. We can see solids and liquids because their particles are much bigger than gas particles.

Do you agree with the student's description of why we can see solids and liquids?

Circle your answer. YES

NO

Use what you know about the arrangement **AND** size of particles of matter to explain your answer.

*According to Part C,
It is wrong because it doesn't matter how big they are. It matters how close they are together. The closer they are the more you can see.*

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

Prompt 1 Part C Score Point 2

Prompt 1 Part C Rubric

Prompt	Score Point 0	Score Point 1	Score Point 2	Score Point 3	Score Point 4
Prompt 1 Part C.	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: • Circles "NO" • Uses the particle arrangement of matter to support their explanation • Uses the size of particles of matter to support their explanation	NA

Score Point 2 (2/3 aspects met)

- Part C
 - Circles "NO."
 - Uses particle arrangement in solids and liquids as a difference between gas.
 - Does **NOT** use the size of the particles to support their explanation.

Part C.

Ms. Kim tells the students that we can see solids and liquids. Solids and liquids are also made of particles like gases. Then, a student says the following:

The particles of solids and liquids are arranged the same as gases. We can see solids and liquids because their particles are much bigger than gas particles.

Do you agree with the student's description of why we can see solids and liquids?

Circle your answer. YES **NO**

Use what you know about the arrangement **AND** size of particles of matter to explain your answer.

The difference between gases solids and liquids is the particle arrangement

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

Prompt 1 Part C Score Point 1

Prompt 1 Part C Rubric

Prompt	Score Point 0	Score Point 1	Score Point 2	Score Point 3	Score Point 4
Prompt 1 Part C.	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: • Circles “NO” • Uses the particle arrangement of matter to support their explanation • Uses the size of particles of matter to support their explanation	NA

Score Point 1 (1/3 aspects met)

- Part C
 - Circles “NO.”
 - Does **NOT** use particle arrangement to support their explanation.
 - Does **NOT** use particle size to support their explanation (i.e., The student incorrectly describes liquids and solids as having “. . . more little particles . . .”

Part C.

Ms. Kim tells the students that we can see solids and liquids. Solids and liquids are also made of particles like gases. Then, a student says the following:

The particles of solids and liquids are arranged the same as gases. We can see solids and liquids because their particles are much bigger than gas particles.

Do you agree with the student's description of why we can see solids and liquids?

Circle your answer. YES **NO**

Use what you know about the arrangement **AND** size of particles of matter to explain your answer.

liquids and solids have way more little particles than gas and a lot of gases are clear so yeah

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

Prompt 1 Part C Score Point 0

Prompt 1 Part C Rubric

Prompt	Score Point 0	Score Point 1	Score Point 2	Score Point 3	Score Point 4
Prompt 1 Part C.	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: • Circles "NO" • Uses the particle arrangement of matter to support their explanation • Uses the size of particles of matter to support their explanation	NA

Score Point 0 (0/3 aspects met)

- Part C
 - Does **NOT** circle "NO."
 - Does **NOT** use particle arrangement to support their explanation.
 - Does **NOT** use particle size to support their explanation (i.e., The student response incorrectly states that "... some gas particles are microscopic."

Part C.

Ms. Kim tells the students that we can see solids and liquids. Solids and liquids are also made of particles like gases. Then, a student says the following:

The particles of solids and liquids are arranged the same as gases. We can see solids and liquids because their particles are much bigger than gas particles.

Do you agree with the student's description of why we can see solids and liquids?

Circle your answer. ☒ YES ☐ NO

Use what you know about the arrangement **AND** size of particles of matter to explain your answer.

i agrt with the student because ^{some} gas particles ar microscopie