



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

Grade 5 Unit 2: Matter and Energy in Organisms and Ecosystems

Task 1 Prompt 1 Scored and Annotated Anchor Sets

April 2025

Grade 5 Unit 2: Matter and Energy in Organisms and Ecosystems, Task 1 Prompt 1 Scored and Annotated Anchor Sets 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 2 Task 1: What it Takes to Grow

Prompt 1 Score Point 4

Prompt 1 Rubric

Prompt	Score Point 0	Score Point 1	Score Point 2	Score Point 3	Score Point 4
Prompt 1	No aspect of the response is correct	Response includes: Air or water is a material plants need to make food and grow	Response includes: - Air and water are the materials plants need to make food and grow - Supports the claim with flawed or no information from Table 1	Response includes: - Air and water are the materials plants need to make food and grow - Supports the claim by comparing one (1) set or pair of growing conditions (any combination of A, B, C, or D) using data from Table 1	Response includes: - Air and water are the materials plants need to make food and grow - Supports the claim by comparing two (2) sets or pairs of growing conditions (any combination of A, B, C, or D) using data from Table 1 that verifies air and water are required and soil is not required for growth

Score Point 4 (2/2 aspects met)

- Includes that plants need air and water to make food and grow.
- Supports the claim by correctly comparing two (2) sets or pairs of growing conditions using data from Table 1.

NOTE: The student response indicates that Container D weighs "0.7 g" which indicates no growth.

To complete the claim, compare the growing conditions in containers A, B, C, and D and the before and after data related to plant weight.

Then, support the claim with evidence from Table 1.

The Claim:

The materials plants need to make food and grow are air and water.

Evidence to Support the Claim:

In containers A and C, the data shows that they both weigh more than the other containers. container A weighs 14.7 grams, and container C weighs 15.4 grams.

In containers B and D, the data shows that they weigh less than the other 2 containers. container B weighs 4.2 g and container D weighs 0.7g.

CASCIA Grade 5 EOU Assessment 2 Task 1: What it Takes to Grow

Prompt 1 Score Point 3

Prompt 1 Rubric

Prompt	Score Point 0	Score Point 1	Score Point 2	Score Point 3	Score Point 4
Prompt 1	No aspect of the response is correct	Response includes: Air or water is a material plants need to make food and grow	Response includes: - Air and water are the materials plants need to make food and grow - Supports the claim with flawed or no information from Table 1	Response includes: - Air and water are the materials plants need to make food and grow - Supports the claim by comparing one (1) set or pair of growing conditions (any combination of A, B, C, or D) using data from Table 1	Response includes: - Air and water are the materials plants need to make food and grow - Supports the claim by comparing two (2) sets or pairs of growing conditions (any combination of A, B, C, or D) using data from Table 1 that verifies air and water are required and soil is not required for growth

Score Point 3 (2/2 aspects met)

- Includes that air and water are the materials plants need to make food and grow.
- Supports the claim by correctly comparing one (1) set or pair of growing conditions (i.e., The student compares D and C.)

NOTE: The student crosses out the “s” following the word “containers” and compares one set of containers across the response space.

To complete the claim, compare the growing conditions in containers A, B, C, and D and the before and after data related to plant weight.

Then, support the claim with evidence from Table 1.

The Claim:

The materials plants need to make food and grow are water air

Evidence to Support the Claim:

In container D, the data shows it didn't grow at all, without water

In container C, the data shows that it grew the most

CASCIA Grade 5 EOU Assessment 2 Task 1: What it Takes to Grow

Prompt 1 Score Point 2

Prompt 1 Rubric

Prompt	Score Point 0	Score Point 1	Score Point 2	Score Point 3	Score Point 4
Prompt 1	No aspect of the response is correct	Response includes: Air or water is a material plants need to make food and grow	Response includes: - Air and water are the materials plants need to make food and grow - Supports the claim with flawed or no information from Table 1	Response includes: - Air and water are the materials plants need to make food and grow - Supports the claim by comparing one (1) set or pair of growing conditions (any combination of A, B, C, or D) using data from Table 1	Response includes: - Air and water are the materials plants need to make food and grow - Supports the claim by comparing two (2) sets or pairs of growing conditions (any combination of A, B, C, or D) using data from Table 1 that verifies air and water are required and soil is not required for growth

Score Point 2 (2/2 aspects met)

- Includes that air and water are the materials plants need to make food and grow.

NOTE: The student response includes “sun” which is accurate and does not detract from the correctness of the response.

- Supports the claim with flawed or no information from Table 1.

NOTE: The student response includes references to container “f” and “Keyannas Plant” which are not included in Table 1.

To complete the claim, compare the growing conditions in containers A, B, C, and D and the before and after data related to plant weight.

Then, support the claim with evidence from Table 1.

The Claim:

The materials plants need to make food and grow are sun water air.

Evidence to Support the Claim:

In containers f, the data shows It didn't grow

In containers Keyannas Plant, the data shows It grew Very good

CASCIA Grade 5 EOU Assessment 2 Task 1: What it Takes to Grow

Prompt 1 Score Point 1

Prompt 1 Rubric

Prompt	Score Point 0	Score Point 1	Score Point 2	Score Point 3	Score Point 4
Prompt 1	No aspect of the response is correct	Response includes: Air or water is a material plants need to make food and grow	Response includes: - Air and water are the materials plants need to make food and grow - Supports the claim with flawed or no information from Table 1	Response includes: - Air and water are the materials plants need to make food and grow - Supports the claim by comparing one (1) set or pair of growing conditions (any combination of A, B, C, or D) using data from Table 1	Response includes: - Air and water are the materials plants need to make food and grow - Supports the claim by comparing two (2) sets or pairs of growing conditions (any combination of A, B, C, or D) using data from Table 1 that verifies air and water are required and soil is not required for growth

Score Point 1 (1/1 aspect met)

- Includes that air or water is a material that plants need to make food and grow.

NOTE: The student response uses inaccurate evidence to support the claim as written given that the growing conditions for Container C and D both included air which do not provide evidence to support the claim.

To complete the claim, **compare the growing conditions in containers A, B, C, and D and the before and after data related to plant weight.**

Then, support the claim with evidence from **Table 1**.

The Claim:

The materials plants need to make food and grow are air.

Evidence to Support the Claim:

In containers C and D, the data shows they did better

In containers _____, the data shows _____

CASCIA Grade 5 EOU Assessment 2 Task 1: What it Takes to Grow

Prompt 1 Score Point 0

Prompt 1 Rubric

Prompt	Score Point 0	Score Point 1	Score Point 2	Score Point 3	Score Point 4
Prompt 1	No aspect of the response is correct	Response includes: Air or water is a material plants need to make food and grow	Response includes: - Air and water are the materials plants need to make food and grow - Supports the claim with flawed or no information from Table 1	Response includes: - Air and water are the materials plants need to make food and grow - Supports the claim by comparing one (1) set or pair of growing conditions (any combination of A, B, C, or D) using data from Table 1	Response includes: - Air and water are the materials plants need to make food and grow - Supports the claim by comparing two (2) sets or pairs of growing conditions (any combination of A, B, C, or D) using data from Table 1 that verifies air and water are required and soil is not required for growth

Score Point 0 (0/1 aspect met)

- Does **NOT** include that air or water is a material that plants need to make food and grow.

NOTE: Student response includes “idk.” (i.e., “I don’t know.”)

To complete the claim, compare the growing conditions in containers A, B, C, and D and the before and after data related to plant weight.

Then, support the claim with evidence from Table 1.

The Claim:

The materials plants need to make food and grow are SUN

Evidence to Support the Claim:

In containers idk, the data shows _____

In containers _____, the data shows _____
