



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 3 Scored and Annotated Anchor Sets

April 2025

Grade 5 Unit 2: Matter and Energy in Organisms and Ecosystems, Task 1 Prompt 3 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 3 Score Point 3

Prompt 3 Rubric

Prompt	Score Point 0	Score Point 1	Score Point 2	Score Point 3	Score Point 4
Prompt 3	No aspect of the response is correct	Response includes one (1) of the two (2) aspects	Response includes the following aspects: Part A - Arrow pointing from sun to pea plant and an arrow pointing from pea plant to rabbit Part B - The sun is needed to provide energy for plants to grow	Response includes the following aspects: Part A - Arrow pointing from sun to pea plant and an arrow pointing from pea plant to rabbit Part B - The sun is needed to provide energy for plants to grow - The source of energy in the rabbit's food is traced back to the sun using relationships shown in Model 1	NA

Score Point 3 (3/3 aspects met)

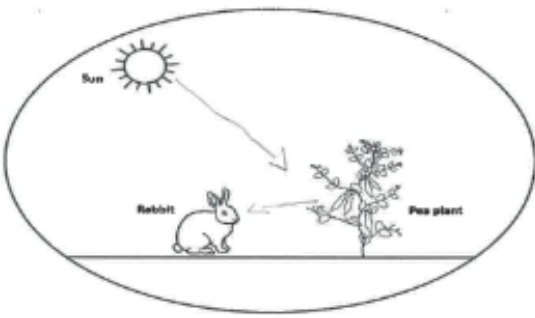
- Part A
 - Includes an arrow pointing from the sun to the pea plant and an arrow pointing from the pea plant to the rabbit.
- Part B
 - Includes a statement indicating that the sun is needed to provide energy for plants to grow.
 - Includes a statement indicating that the source of energy in the rabbit's food is traced back to the sun using relationships shown in Model 1.

Prompt 3

Part A.
All living things need energy to grow. Animals get energy and grow by eating food. For example, rabbits may eat parts of a pea plant to get energy.

Draw arrows to show the transfer of energy between the objects in Model 1. Remember, each arrow points to the transfer of energy **from** one object to another.

Model 1. Transfer of Energy in a Garden



Part B.
The energy a plant uses to grow comes from from the sun.

Describe how the energy in the food a rabbit uses to grow comes from the **same** energy a plant uses to grow. Use Model 1 to support your response.

All energy on Earth comes from the sun. In Model 1 you can see that I drew an arrow from the sun to the plant. The energy that the plant got from the sun goes into the rabbit.

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

Prompt 3 Score Point 2

Prompt 3 Rubric

Prompt	Score Point 0	Score Point 1	Score Point 2	Score Point 3	Score Point 4
Prompt 3	No aspect of the response is correct	Response includes one (1) of the two (2) aspects	Response includes the following aspects: Part A - Arrow pointing from sun to pea plant and an arrow pointing from pea plant to rabbit Part B - The sun is needed to provide energy for plants to grow	Response includes the following aspects: Part A - Arrow pointing from sun to pea plant and an arrow pointing from pea plant to rabbit Part B - The sun is needed to provide energy for plants to grow - The source of energy in the rabbit's food is traced back to the sun using relationships shown in Model 1	NA

Score Point 2 (2/2 aspects met)

- Part A
 - Includes an arrow pointing from the sun to the pea plant and an arrow pointing from the pea plant to the rabbit.
- Part B
 - Includes a statement indicating that the sun is needed to provide energy for plants to grow.

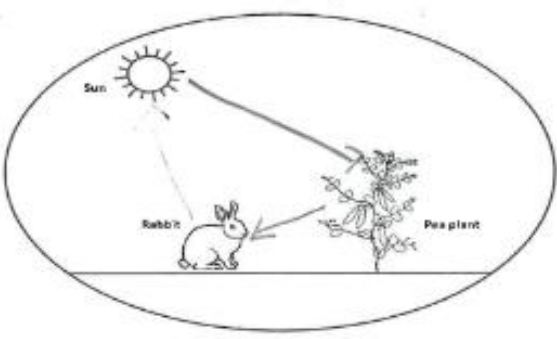
NOTE: The student response refers to when the animal dies and a relationship between the plant and the animal.

Prompt 3

Part A.
All living things need energy to grow. Animals get energy and grow by eating food. For example, rabbits may eat parts of a pea plant to get energy.

Draw arrows to show the transfer of energy between the objects in **Model 1**. Remember, each arrow points to the transfer of energy from one object to another.

Model 1. Transfer of Energy in a Garden



Part B.
The energy a plant uses to grow comes from the sun.

Describe how the energy in the food a rabbit uses to grow comes from the **same** energy a plant uses to grow. Use **Model 1** to support your response.

When the animal eats the plant it gets energy from the plant it just ate then when the animal dies the plant obvisie the animal.

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

Prompt 3 Score Point 1

Prompt 3 Rubric

Prompt	Score Point 0	Score Point 1	Score Point 2	Score Point 3	Score Point 4
Prompt 3	No aspect of the response is correct	Response includes one (1) of the two (2) aspects	Response includes the following aspects: Part A - Arrow pointing from sun to pea plant and an arrow pointing from pea plant to rabbit Part B - The sun is needed to provide energy for plants to grow	Response includes the following aspects: Part A - Arrow pointing from sun to pea plant and an arrow pointing from pea plant to rabbit Part B - The sun is needed to provide energy for plants to grow - The source of energy in the rabbit's food is traced back to the sun using relationships shown in Model 1	NA

Score Point 1 (1/2 aspect met)

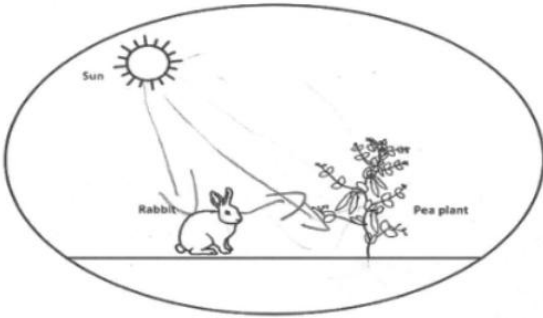
- Part A
 - Does **NOT** correctly include arrows to show the transfer of energy (i.e., The student response includes an arrow pointing from the sun to the rabbit and from the rabbit to the plant.).
- Part B
 - Includes a statement indicating that the sun is needed to provide energy for plants to grow.

Prompt 3

Part A.
All living things need energy to grow. Animals get energy and grow by eating food. For example, rabbits may eat parts of a pea plant to get energy.

Draw arrows to show the transfer of energy between the objects in **Model 1**. Remember, each arrow points to the transfer of energy **from** one object to another.

Model 1. Transfer of Energy in a Garden



Part B.
The energy a plant uses to grow comes from the sun.

Describe how the energy in the food a rabbit uses to grow comes from the **same** energy a plant uses to grow. Use **Model 1** to support your response.

the bunny needs to eat the
plant bc the plant has energy
for the bunny to consume

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

Prompt 3 Score Point 0

Prompt 3 Rubric

Prompt	Score Point 0	Score Point 1	Score Point 2	Score Point 3	Score Point 4
Prompt 3	No aspect of the response is correct	Response includes one (1) of the two (2) aspects	Response includes the following aspects: Part A - Arrow pointing from sun to pea plant and an arrow pointing from pea plant to rabbit Part B - The sun is needed to provide energy for plants to grow	Response includes the following aspects: Part A - Arrow pointing from sun to pea plant and an arrow pointing from pea plant to rabbit Part B - The sun is needed to provide energy for plants to grow - The source of energy in the rabbit's food is traced back to the sun using relationships shown in Model 1	NA

Score Point 0 (0/2 aspects met)

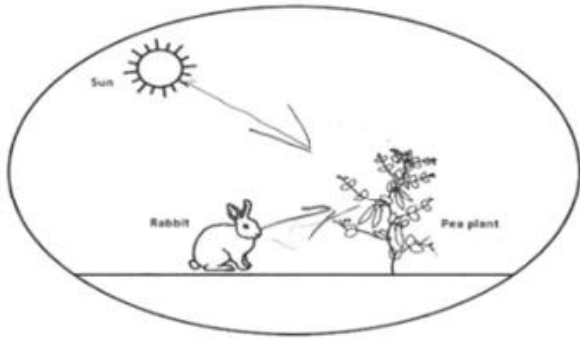
- Part A
 - Does **NOT** correctly include arrows to show the transfer of energy (i.e., The student response includes an arrow pointing from the rabbit to the pea plant.”).
- Part B
 - Does **NOT** include a statement indicating that only the sun is needed to provide energy for plants to grow.

Prompt 3

Part A.
All living things need energy to grow. Animals get energy and grow by eating food. For example, rabbits may eat parts of a pea plant to get energy.

Draw arrows to show the transfer of energy between the objects in **Model 1**. Remember, each arrow points to the transfer of energy **from** one object **to** another.

Model 1. Transfer of Energy in a Garden



Part B.
The energy a plant uses to grow comes from Plants, and other animals.

Describe how the energy in the food a rabbit uses to grow comes from the **same** energy a plant uses to grow. Use **Model 1** to support your response.

the rabbit eats the plant like how
the plant eats compost