



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

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

Task 3 Prompt 1 Scored and Annotated Anchor Sets

April 2025

Grade 5 Unit 2: Matter and Energy in Organisms and Ecosystems, Task 3 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 3: Cycling Through a System

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 one (1) of the three (3) aspects	Response includes two (2) of the three (3) aspects	Response includes the following aspects: - Describes that the native fish species rely on underwater plants for survival - Describes how goldfish cause the underwater plants to die - Predicts that without the plant, the native species will die or disappear from the pond system	NA

Score Point 3 (3/3 aspects met)

- Describes that the native fish species rely on underwater plants for survival.
- Describes how goldfish cause the underwater plants to die.
- Predicts that without the plant, the native species will die or disappear from the pond system.

NOTE: The student response is extensive and includes additional information to further elaborate on the prediction.

Describe the effect of releasing the goldfish in the pond shown in Figure 1. Be sure to include:

- information about the native fish species
- information about the invasive fish species
- a prediction of the effect on the pond system over time

pop went down why? *Gold fish no good* *pop up*

The native fish species population went way down. This is because the gold fish or the invasive species will stir up the mud on the bottom of the pond. That will take away sunlight from reaching the underwater plants. If the plants have no sunlight they will not grow. If the plants don't grow the native fish species won't have any food. That will cause death. The invasive fish species will breed a lot and take over the pond. Fishing will be not so good. Fishing on that pond would not be fun.

CASCIA Grade 5 EOU Assessment 2 Task 3: Cycling Through a System

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 one (1) of the three (3) aspects	Response includes two (2) of the three (3) aspects	Response includes the following aspects: - Describes that the native fish species rely on underwater plants for survival - Describes how goldfish cause the underwater plants to die - Predicts that without the plant, the native species will die or disappear from the pond system	NA

Score Point 2 (2/3 aspects met)

- Does **NOT** describe that the native fish species rely on underwater plants for survival.
- Describes how goldfish cause the underwater plants to die (i.e., "... killed the plants . . .")
- Predicts that without the plant, the native species will die or disappear from the pond system.

NOTE: The student response states, "... now there is a lot of gold fish a not so much native species."

Describe the effect of releasing the goldfish in the pond shown in Figure 1. Be sure to include:

- information about the native fish species
- information about the invasive fish species
- a prediction of the effect on the pond system over time

the goldfish started to make more mud from moving a lot witch killed the plants and the native species started to die witch made more food for the gold fish and now there is a lot of gold fish a not so much native species.

CASCIA Grade 5 EOU Assessment 2 Task 3: Cycling Through a System

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 one (1) of the three (3) aspects	Response includes two (2) of the three (3) aspects	Response includes the following aspects: - Describes that the native fish species rely on underwater plants for survival - Describes how goldfish cause the underwater plants to die - Predicts that without the plant, the native species will die or disappear from the pond system	NA

Score Point 1 (1/3 aspects met)

- Does **NOT** describe that the native fish species rely on underwater plants for survival.
- Does **NOT** correctly describe how goldfish cause the underwater plants to die.
- Predicts that without the plant, the native species will die or disappear from the pond system.

NOTE: The student response describes that the species population [native] decreases.

Describe the effect of releasing the goldfish in the pond shown in **Figure 1**. Be sure to include:

- information about the native fish species
- information about the invasive fish species
- a prediction of the effect on the pond system over time

In year 1 there weren't any invasive but over time come more and more and the (species) population decreases

CASCIA Grade 5 EOU Assessment 2 Task 3: Cycling Through a System

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 one (1) of the three (3) aspects	Response includes two (2) of the three (3) aspects	Response includes the following aspects: - Describes that the native fish species rely on underwater plants for survival - Describes how goldfish cause the underwater plants to die - Predicts that without the plant, the native species will die or disappear from the pond system	NA

Score Point 0 (0/3 aspects met)

- Does **NOT** describe that the native fish species rely on underwater plants for survival.
- Does **NOT** correctly describe how goldfish cause the underwater plants to die.
- Does **NOT** correctly predict that without the plant, the native species will die or disappear from the pond system.

Describe the effect of releasing the goldfish in the pond shown in **Figure 1**. Be sure to include:

- information about the native fish species
- information about the invasive fish species
- a prediction of the effect on the pond system over time

gold fish are rare to find