



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

Grade 8 Unit 4: Providing Solutions to Problems Using Simple Wave Properties

Task 2 Prompt 1 Part B Scored and Annotated Anchor Set

May 2025

Grade 8 Unit 4: Providing Solutions to Problems Using Simple Wave Properties, Task 2 Prompt 1 Part B 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 8 EOU Assessment 4 Task 2: Color My World

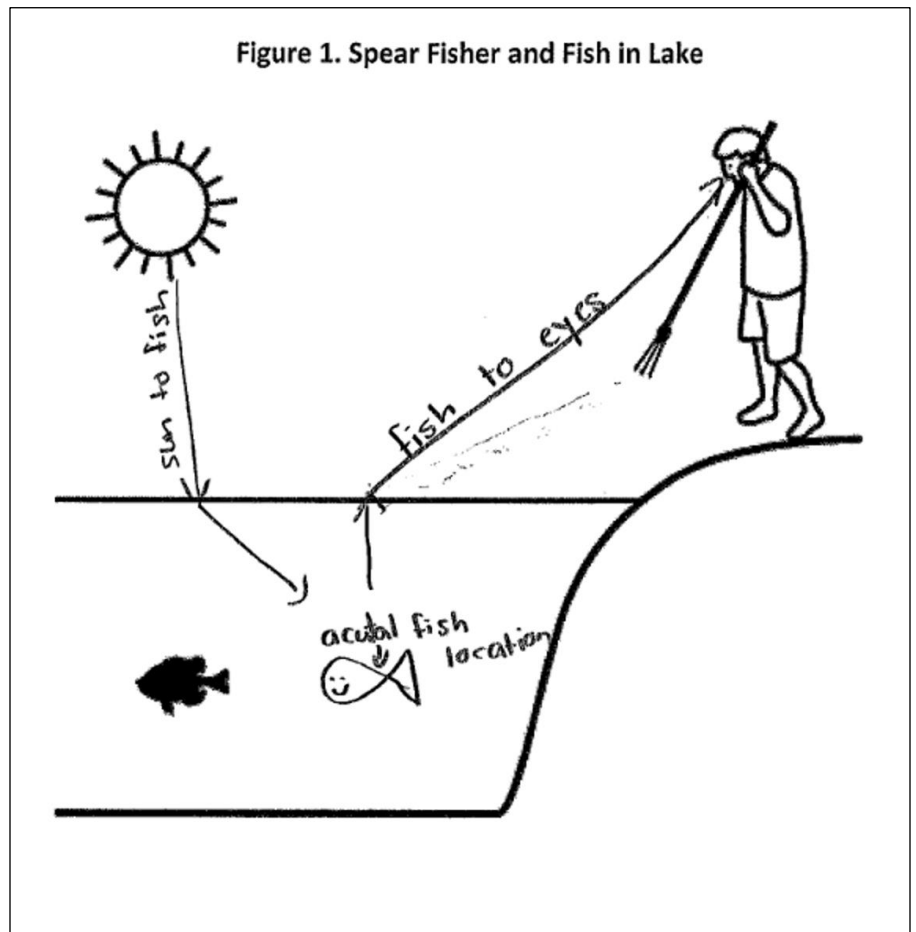
Prompt 1 Part B Score Point 3

Prompt 1 Part B Rubric

Prompt	Score Point 0	Score Point 1	Score Point 2	Score Point 3	Score Point 4
Prompt 1 Part B.	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: - Draws and labels the actual location of the fish - Includes directional arrows to show the path of light from the sun to the actual fish location - Includes directional arrows to show the path of light from the actual fish location to the spear fisher's eyes	NA

Score Point 3 (3/3 aspects met)

- Part B
 - Draws and labels the **actual** location of the fish (i.e., the drawing of the actual fish is high, but other parts of the answer are complete and accurate).
 - Includes directional arrows to show the path of light from the sun to the **actual** fish location.
 - Includes directional arrows to show the path of light from the **actual** fish location to the spear fisher's eyes.



CASCIA Grade 8 EOU Assessment 4 Task 2: Color My World

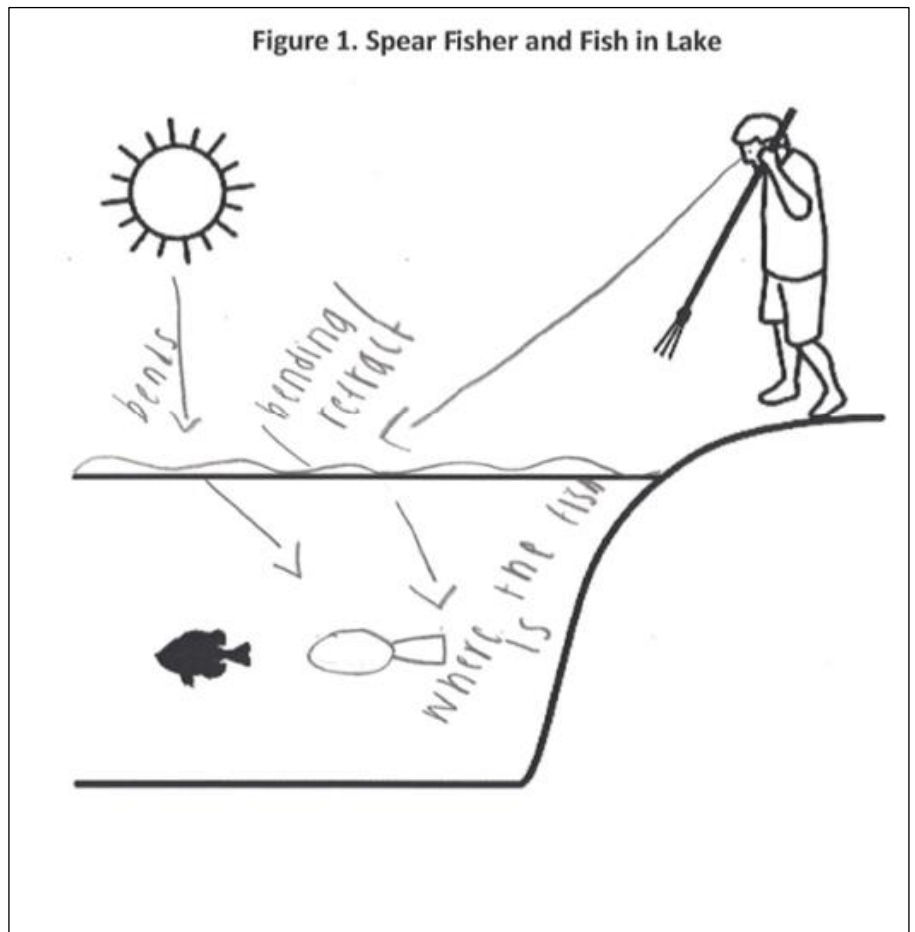
Prompt 1 Part B Score Point 2

Prompt 1 Part B Rubric

Prompt	Score Point 0	Score Point 1	Score Point 2	Score Point 3	Score Point 4
Prompt 1 Part B.	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: - Draws and labels the actual location of the fish - Includes directional arrows to show the path of light from the sun to the actual fish location - Includes directional arrows to show the path of light from the actual fish location to the spear fisher's eyes	NA

Score Point 2 (2/3 aspects met)

- Part B
 - Draws and labels the **actual** location of the fish.
 - Includes directional arrows to show the path of light from the sun to the **actual** fish location (i.e., the student does include directional arrows and the bending of light).
 - Does **NOT** include directional arrows to show the path of light from the **actual** fish location to the spear fisher's eyes.



CASCIA Grade 8 EOU Assessment 4 Task 2: Color My World

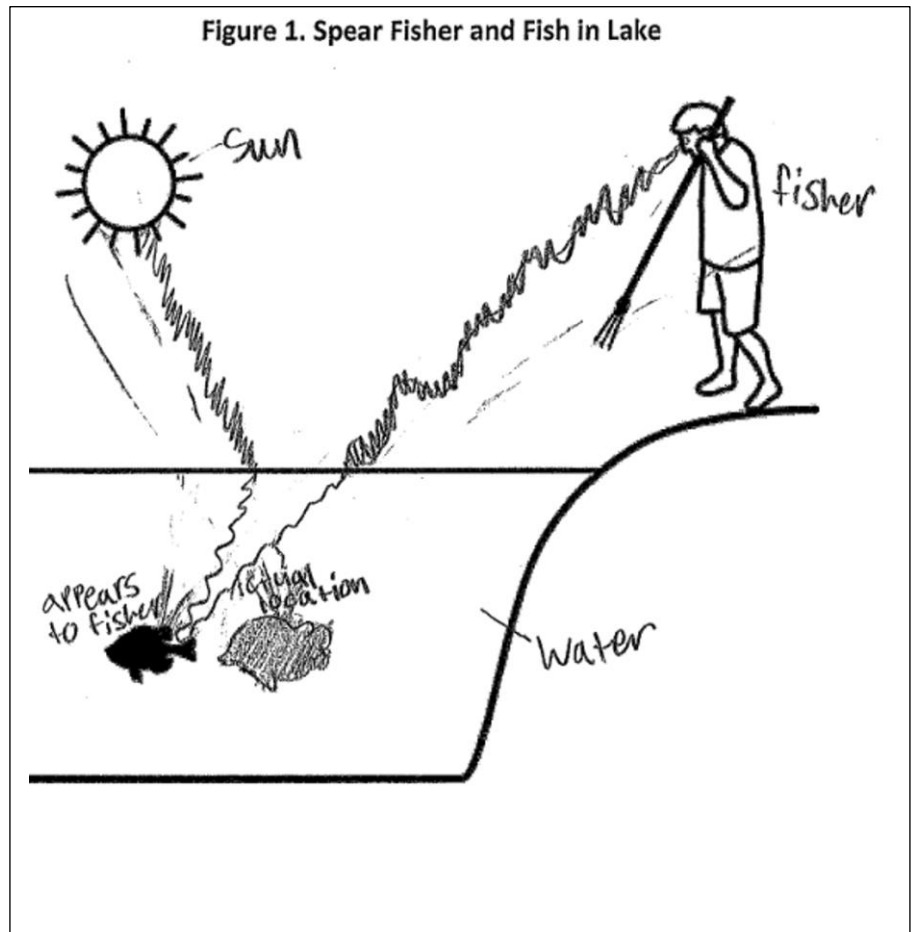
Prompt 1 Part B Score Point 1

Prompt 1 Part B Rubric

Prompt	Score Point 0	Score Point 1	Score Point 2	Score Point 3	Score Point 4
Prompt 1 Part B.	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: - Draws and labels the actual location of the fish - Includes directional arrows to show the path of light from the sun to the actual fish location - Includes directional arrows to show the path of light from the actual fish location to the spear fisher's eyes	NA

Score Point 1 (1/3 aspects met)

- Part B
 - Draws and labels the **actual** location of the fish.
 - Does **NOT** include directional arrows to show the path of light from the sun to the **actual** fish location.
 - Does **NOT** include directional arrows to show the path of light from the **actual** fish location to the spear fisher's eyes (i.e., the student indicates the apparent location of the fish to the spear fisher's eyes).



CASCIA Grade 8 EOU Assessment 4 Task 2: Color My World

Prompt 1 Part B Score Point 0

Prompt 1 Part B Rubric

Prompt	Score Point 0	Score Point 1	Score Point 2	Score Point 3	Score Point 4
Prompt 1 Part B.	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: - Draws and labels the actual location of the fish - Includes directional arrows to show the path of light from the sun to the actual fish location - Includes directional arrows to show the path of light from the actual fish location to the spear fisher's eyes	NA

Score Point 0 (0/3 aspects met)

- Part B
 - Does **NOT** draw and label the **actual** location of the fish (i.e., the student DOES draw and label "actual location," however places the drawing inaccurately).
 - Does **NOT** include directional arrows to show the path of light from the sun to the **actual** fish location.
 - Does **NOT** include directional arrows to show the path of light from the **actual** fish location to the spear fisher's eyes.

Figure 1. Spear Fisher and Fish in Lake

