



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

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

Task 3 Prompt 3 Part A Scored and Annotated Anchor Set

May 2025

Grade 8 Unit 4: Providing Solutions to Problems Using Simple Wave Properties, Task 3 Prompt 3 Part A 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 3: Sounds of Silence

Prompt 3 Part A Score Point 2

Prompt 3 Part A Rubric

Prompt	Score Point 0	Score Point 1	Score Point 2	Score Point 3	Score Point 4
Prompt 3 Part A.	No aspect of the response is correct	Response includes one (1) of the two (2) aspects	Response includes the following aspects: - Describes that sound can travel through solid materials - Describes sound waves as needing a medium through which to travel	NA	NA

Score Point 2 (2/2 aspects met)

- Part A
 - Describes that sound can travel through solid material.
 - Describes sound waves as needing a medium through which to travel (while the answer lacks the word “needs”, the answer implies this).

Explain why you can still hear outside noises even in a room that is surrounded by solid materials, such as walls and a closed window.

Sound travels through mediums,
so once it hits the solid materials
it is transmitted and travels through
the solid materials.

CASCIA Grade 8 EOU Assessment 4 Task 3: Sounds of Silence

Prompt 3 Part A Score Point 1

Prompt 3 Part A Rubric

Prompt	Score Point 0	Score Point 1	Score Point 2	Score Point 3	Score Point 4
Prompt 3 Part A.	No aspect of the response is correct	Response includes one (1) of the two (2) aspects	Response includes the following aspects: - Describes that sound can travel through solid materials - Describes sound waves as needing a medium through which to travel	NA	NA

Score Point 1 (1/2 aspects met)

- Part A
 - Describes that sound can travel through solid material.
 - Does **NOT** describe sound waves as needing a medium through which to travel.

Explain why you can still hear outside noises even in a room that is surrounded by solid materials, such as walls and a closed window.

The sound is transferred through the solid material, so in this way you still hear the sound from outside the window.

CASCIA Grade 8 EOU Assessment 4 Task 3: Sounds of Silence

Prompt 3 Part A Score Point 0

Prompt 3 Part A Rubric

Prompt	Score Point 0	Score Point 1	Score Point 2	Score Point 3	Score Point 4
Prompt 3 Part A.	No aspect of the response is correct	Response includes one (1) of the two (2) aspects	Response includes the following aspects: - Describes that sound can travel through solid materials - Describes sound waves as needing a medium through which to travel	NA	NA

Score Point 0 (0/2 aspects met)

- Part A
 - Does **NOT** describe that sound can travel through solid material.
 - Does **NOT** describe sound waves as needing a medium through which to travel.

Explain why you can still hear outside noises even in a room that is surrounded by solid materials, such as walls and a closed window.

The walls and the windows are not completely solid, and have tiny holes. These tiny holes allow even a little bit of sound in.