



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 C Scored and Annotated Anchor Set

May 2025

Grade 8 Unit 4: Providing Solutions to Problems Using Simple Wave Properties, Task 3 Prompt 3 Part C 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 C Score Point 3

Prompt 3 Part C Rubric

Prompt	Score Point 0	Score Point 1	Score Point 2	Score Point 3	Score Point 4
Prompt 3 Part C.	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 the need for multiple measurements/locations in the room • Describes the use of a decibel meter to measure sound levels • Describes the scale or dB range of sound that is required	NA

Score Point 3 (3/3 aspects met)

- Part C
 - Describes the need for multiple measurements/locations in the room (i.e., "... test all around the room as well.").
 - Describes the use of the decibel meter to measure sound levels.
 - Describes the scale or dB range of sound that is required (i.e., "... within the 25 – 30 decibels.").

Explain where you would measure the intensity of sound in the studio and what scale you would use to test your proposed design.

You would test the intensity of sound by the window and the outside walls using a Decibal meter to test the Decibels to see if they are within the 25 - 30 decibals. You should test all around the room as well.

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

Prompt 3 Part C Score Point 2

Prompt 3 Part C Rubric

Prompt	Score Point 0	Score Point 1	Score Point 2	Score Point 3	Score Point 4
Prompt 3 Part C.	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 the need for multiple measurements/locations in the room - Describes the use of a decibel meter to measure sound levels - Describes the scale or dB range of sound that is required	NA

Score Point 2 (2/3 aspects met)

- Part C
 - Describes the need for multiple measurements/locations in the room (i.e., "... near doors and windows.>").
 - Describes the use of the decibel meter to measure sound levels (i.e., student refers to, "... put a device to measure the decibels ...").
 - Does **NOT** describe the scale or dB range of sound that is required.

Explain where you would measure the intensity of sound in the studio and what scale you would use to test your proposed design.

I would measure the intensity of sound near the doors and windows. I could make a smaller scale of the room and put materials in it to reduce noise. Then put a device to measure the decibels on the inside and make noise on the outside. After that I can record the data and find which materials work best.

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

Prompt 3 Part C Score Point 1

Prompt 3 Part C Rubric

Prompt	Score Point 0	Score Point 1	Score Point 2	Score Point 3	Score Point 4
Prompt 3 Part C.	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 the need for multiple measurements/locations in the room - Describes the use of a decibel meter to measure sound levels - Describes the scale or dB range of sound that is required	NA

Score Point 1 (1/3 aspects met)

- Part C
 - Does **NOT** describe the need for multiple measurements/locations in the room.
 - Describes the use of the decibel meter to measure sound levels.
 - Does **NOT** describe the scale or dB range of sound that is required.

Explain where you would measure the intensity of sound in the studio and what scale you would use to test your proposed design.

to test them you could be in the room with a decible reader and have noise outside the room to test it.

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

Prompt 3 Part C Score Point 0

Prompt 3 Part C Rubric

Prompt	Score Point 0	Score Point 1	Score Point 2	Score Point 3	Score Point 4
Prompt 3 Part C.	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 the need for multiple measurements/locations in the room - Describes the use of a decibel meter to measure sound levels - Describes the scale or dB range of sound that is required	NA

Score Point 0 (0/3 aspects met)

- Part C
 - Does **NOT** describe the need for multiple measurements/locations in the room.
 - Does **NOT** describe the use of the decibel meter to measure sound levels.
 - Does **NOT** describe the scale or dB range of sound that is required.

Explain where you would measure the intensity of sound in the studio and what scale you would use to test your proposed design.

I would test it by recording my voice in side and out of the studio before and after putting in the sound proofing material.