



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 B Scored and Annotated Anchor Set

May 2025

Grade 8 Unit 4: Providing Solutions to Problems Using Simple Wave Properties, Task 3 Prompt 3 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.

All rights reserved. Any or all portions of this document may be reproduced and distributed without prior permission, provided the source is cited as: Coherence and Alignment Among Science Curriculum, Instruction, and Assessment (CASCIA) Project. (2025). *Grade 8 Unit 4: Providing Solutions to Problems Using Simple Wave Properties, Task 3 Prompt 3 Part B Scored and Annotated Anchor Set*. Lincoln, NE: Nebraska Department of Education.

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

Prompt 3 Part B Score Point 3

Prompt 3 Part B Rubric

Prompt	Score Point 0	Score Point 1	Score Point 2	Score Point 3	Score Point 4
Prompt 3 Part B.	No aspect of the response is correct	Response includes the following aspects: - Explains the rationale for evaluating one (1) or two (2) aspects of the noise reduction products (i.e., cost, NRC, or description) - References at least one (1) of the noise reduction products across one or two rationales	Response includes the following aspects: - Explains the rationale for evaluating three (3) aspects of the noise reduction products (i.e., cost, NRC, and description) - References two (2) of the noise reduction products (e.g., A and B) across the three (3) rationales	Response includes the following aspects: - Explains the rationale for evaluating three (3) aspects of the noise reduction products (i.e., cost, NRC, and description) - References at least three (3) of the noise reduction products (e.g., A, B, and C) across the three (3) rationales	NA

Score Point 3 (3/3 aspects met)

- Part B
 - Explains the rationale for evaluating three (3) aspects of the noise reduction products (i.e., cost, NRC, and description).
 - References three (3) of the noise reduction products (i.e., Products A, B, and E are referenced).

Based on the **three** aspects of each of the noise reduction products (cost, NRC, and description), explain why you should evaluate **each** aspect when evaluating products to provide a very quiet environment inside the recording studio. Use the information about the different types of noise reduction products in **Table 2** to support your response.

- Cost:** easily the one that you should use is Product A. It is so cheap and is the best choice compared to the rest of them.
- NRC:** You would have to choose between product A or B with B being just slightly better.
- Description:** Based on description you can tell why Product E is the really expensive one. It is perfect for sound proofing the quality is great.

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

Prompt 3 Part B Score Point 2

Prompt 3 Part B Rubric

Prompt	Score Point 0	Score Point 1	Score Point 2	Score Point 3	Score Point 4
Prompt 3 Part B.	No aspect of the response is correct	Response includes the following aspects: - Explains the rationale for evaluating one (1) or two (2) aspects of the noise reduction products (i.e., cost, NRC, or description) - References at least one (1) of the noise reduction products across one or two rationales	Response includes the following aspects: - Explains the rationale for evaluating three (3) aspects of the noise reduction products (i.e., cost, NRC, and description) - References two (2) of the noise reduction products (e.g., A and B) across the three (3) rationales	Response includes the following aspects: - Explains the rationale for evaluating three (3) aspects of the noise reduction products (i.e., cost, NRC, and description) - References at least three (3) of the noise reduction products (e.g., A, B, and C) across the three (3) rationales	NA

Score Point 2 (2/3 aspects met)

- Part B
 - Explains the rationale for evaluating three (3) aspects of the noise reduction products (i.e., cost ['cheapest'], NRC, and description ['installation process']).
 - References two (2) of the noise reduction products (i.e., Products A and B).

Based on the **three** aspects of each of the noise reduction products (cost, NRC, and description), explain why you should evaluate **each** aspect when evaluating products to provide a very quiet environment inside the recording studio. Use the information about the different types of noise reduction products in **Table 2** to support your response.

- I think product A would be good because of it being good the cheapest.
- Product A also has a good NRC, and is cheaper than Product B which only has a good NRC.
- Even though Product A has a difficult installation process it would be most efficient in the long run of everything.

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

Prompt 3 Part B Score Point 1

Prompt 3 Part B Rubric

Prompt	Score Point 0	Score Point 1	Score Point 2	Score Point 3	Score Point 4
Prompt 3 Part B.	No aspect of the response is correct	Response includes the following aspects: - Explains the rationale for evaluating one (1) or two (2) aspects of the noise reduction products (i.e., cost, NRC, or description) - References at least one (1) of the noise reduction products across one or two rationales	Response includes the following aspects: - Explains the rationale for evaluating three (3) aspects of the noise reduction products (i.e., cost, NRC, and description) - References two (2) of the noise reduction products (e.g., A and B) across the three (3) rationales	Response includes the following aspects: - Explains the rationale for evaluating three (3) aspects of the noise reduction products (i.e., cost, NRC, and description) - References at least three (3) of the noise reduction products (e.g., A, B, and C) across the three (3) rationales	NA

Score Point 1 (1/3 aspects met)

- Part B
 - Explains the rationale for evaluating one (1) or two (2) aspects of the noise reduction products (student references three (3) of the products).
 - Does **NOT** reference at least one (1) of the noise reduction products.

Based on the **three** aspects of each of the noise reduction products (cost, NRC, and description), explain why you should evaluate **each** aspect when evaluating products to provide a very quiet environment inside the recording studio. Use the information about the different types of noise reduction products in **Table 2** to support your response.

- The description helps evaluate the products by giving specific details about how it may be installed or things that it shouldn't be around.
- The NRC helps evaluate each product because it tells us how much noise level will be absorbed with it.
- The cost also helps evaluate the products because if you use a cheap one then it could be the worst product.

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

Prompt 3 Part B Score Point 0

Prompt 3 Part B Rubric

Prompt	Score Point 0	Score Point 1	Score Point 2	Score Point 3	Score Point 4
Prompt 3 Part B.	No aspect of the response is correct	Response includes the following aspects: - Explains the rationale for evaluating one (1) or two (2) aspects of the noise reduction products (i.e., cost, NRC, or description) - References at least one (1) of the noise reduction products across one or two rationales	Response includes the following aspects: - Explains the rationale for evaluating three (3) aspects of the noise reduction products (i.e., cost, NRC, and description) - References two (2) of the noise reduction products (e.g., A and B) across the three (3) rationales	Response includes the following aspects: - Explains the rationale for evaluating three (3) aspects of the noise reduction products (i.e., cost, NRC, and description) - References at least three (3) of the noise reduction products (e.g., A, B, and C) across the three (3) rationales	NA

Score Point 0 (0/3 aspects met)

- Part B
 - Does NOT explain the rationale for evaluating one (1) or two (2) aspects of the noise reduction products.
 - Does **NOT** reference at least one (1) of the noise reduction products.

Based on the ~~three~~ aspects of each of the noise reduction products (cost, NRC, and description), explain why you should evaluate **each** aspect when evaluating products to provide a very quiet environment inside the recording studio. Use the information about the different types of noise reduction products in **Table 2** to support your response.

1. test
2. learn
3. know