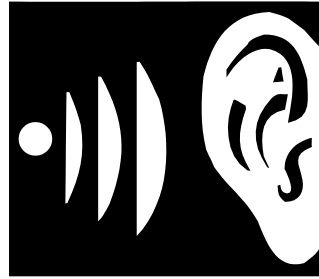


# I Can't Hear You Summative Assessment #4 For A Television in My Room



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## **I Can't Hear You Summative Assessment #4**

### **Type of Assessment:**

Performance Assessment

### **Duration:**

Assignment completed at home. About three days (or over a weekend) should be allowed from the time the assignment is given until the due date.

### **Standard (s) Assessed:**

SC.C.1.2.2.4.1

### **Description of Assessment Activity:**

Using their knowledge of sound waves and how they behave in different media, students soundproof containers. The container must contain an alarm clock, tape player, a child's toy, or similar sound-producing object. The object will be making its sound before being placed in the container. After placement, the sound should no longer be heard. A report will accompany this soundproofing container. The report must: 1) Describe the students' media choice in terms of wave behavior. 2) Have logical explanations in terms that show an understanding of wave behavior in various media.

### **Teacher Directions:**

Gain students' attention by reminding them of all the experiments that they have been doing with waves. Tell them that the objective of this assessment is for them to have a chance to show what they know about how waves behave in different media. Duplicate the instructions, planning slip, and rubric for each student. Discuss the assignment, planning slip, and rubric with the students. Answer any questions concerning the assignment.

### **Student Directions:**

Listen as I present the assignment, planning slip, and rubric. Ask any questions concerning the assignment, planning slip, or rubric. Begin the assignment today. Self-assess your project using the rubric as you are building the container and writing the report. Bring both the soundproofed container and report to school on or before the due date.

**Scoring Method and Criteria:** A rubric of criteria is used to assess students' understanding of wave behavior in different media. A scoring guide accompanies the rubric.

# I Can't Hear You Planning Slip

Date Due \_\_\_\_\_

The purpose of this planning is to be sure you have begun the assignment. You may need to change some of these details after you do some experimenting.

1. What is your container? (shoe box, bucket, etc.)
2. What will be making noise in your container?
3. What materials are you using to stop the sound waves?
4. Have you checked to see if the thing making noise will fit in the container you chose and still leave room for some soundproofing materials?
5. When do you think your project and report will be finished?

# I Can't Hear You

Due \_\_\_\_\_

**Directions:**

1. Find an object at your home that makes a continual noise. This can be an alarm clock, a tape player, a child's toy, or something similar. Using what you have learned about wave behavior, soundproof a container. Place the noisy object in the container and the sound should no longer be heard.
2. Write a report about your soundproofed container. Tell about the material you used to soundproof the container and why you used it. When explaining about sound waves and soundproofing, be sure to tell what is fact or your opinion. Be sure to tell about cause and effect when explaining about the sound waves and how they behave.
3. Use this rubric to self assess your project.

### SC.C.1.2.2.4.1

**The student understands that waves behave differently in different media.**

<b>Satisfactory 2 points each</b>	<b>Needs Improvement 1 points each</b>	<b>Unsatisfactory 0 point each</b>
<input type="checkbox"/> Materials used to soundproof the container are well described.	<input type="checkbox"/> Materials are discussed <b>but</b> poorly described.	<input type="checkbox"/> No description of material use is given.
<input type="checkbox"/> Reasons for materials used are well explained in terms of wave behavior including wavelength, mechanical waves, and sound.	<input type="checkbox"/> Reasons for materials used are <b>somewhat</b> explained. The terms waves, wavelength, mechanical waves, and sound are not used <b>or</b> not used correctly.	<input type="checkbox"/> No reasons for material use are given.
<input type="checkbox"/> Explanation shows understanding of wave behavior.	<input type="checkbox"/> Explanation shows a beginning understanding of wave behavior, <b>but</b> the explanation is not complete or has some mistakes.	<input type="checkbox"/> Explanation does not show understanding wave behavior.

Count the number of boxes checked and use the grading scale to assign a score.  
Suggested grading scale: A = 6, B = 5-4, C = 3-2, D = 1, F = 0