

Soundproofing Material Handout

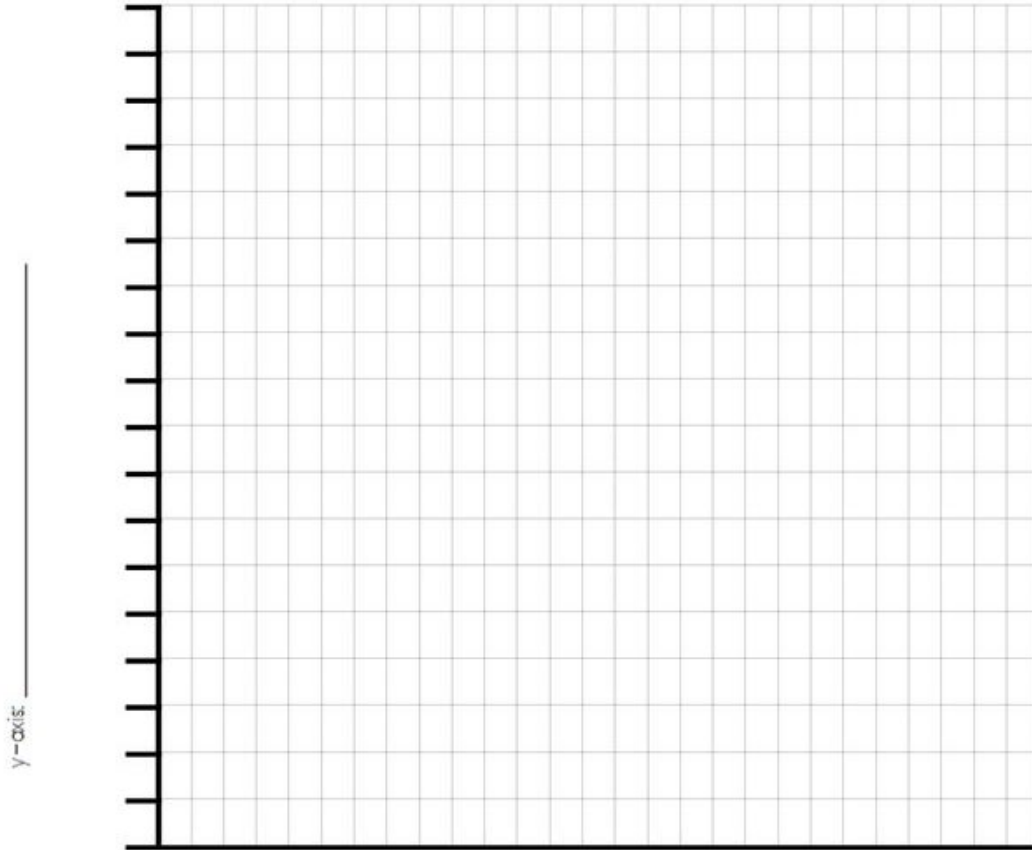
Guiding question: Which material absorbs the most amount of sound in a room?

Data interpretation

As we test each group's material, record the decibel reading. We will create a bar graph (on page 2) based on our results. On your bar graph, you will place the group name for the x-axis and the decibel reading for the y-axis.

| Group name | Decibel reading |
|--|---|
| Fabric: felt, cotton, fleece | Before material: _____ After material: _____ Change in decibel reading: (before *minus* after): _____ |
| Wood: Popsicle sticks, toothpicks | Before material: _____ After material: _____ Change in decibel reading: (before *minus* after): _____ |
| Styrofoam: packing peanuts, plates, cups | Before material: _____ After material: _____ Change in decibel reading: (before *minus* after): _____ |
| Paper: notecards, newspaper, printer paper | Before material: _____ After material: _____ Change in decibel reading: (before *minus* after): _____ |
| Metallics: foil | Before material: _____ After material: _____ Change in decibel reading: (before *minus* after): _____ |
| Plastics: plastic plates, cups | Before material: _____ After material: _____ Change in decibel reading: (before *minus* after): _____ |

Title: _____



x-axis: _____

Graphing analysis questions

1. Which materials registered the greatest decibel reading?

2. Which materials registered the least decibel reading?

3. Describe the type of materials that absorbed the most sound.

4. Describe the type of materials that did not absorb the most sound.

5. What is the change of decibels between the greatest reading and the least reading?
