CALIFORNIA STATE SCIENCE FAIR
2008 PROJECT SUMMARY

Name(s)
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Project Number
S0227

Project Title
Acoustical Comparison of Wall Materials

Abstract

Objectives/Goals
I am trying to figure out which type of wall material reflects sound the least.

Methods/Materials
We used three different sized rooms, a tape measure, a sound reader, drywall, Mahogany plywood, sound board, particle board, plaster wall and a CD player with a CD. We measured the sound of different boards at six, twelve and eighteen inches in three different rooms.

Results
The drywall was the board that reflected the least amount of sound.

Conclusions/Discussion
I found that the drywall was the board that actually reflected the least amount of sound. I will probably go around to different buildings that have different wall materials instead of using three different rooms that are all built of the same wall material.

Summary Statement
I'm am testing what type of wall material reflects sound the least.

Help Received
I used my school's sound reader.