

## CALIFORNIA SCIENCE & ENGINEERING FAIR 2018 PROJECT SUMMARY

Name(s)	Project Number
Sanjna Mizar	
	38049
Project Title	
Keep the Noise Down	
	$\bigcirc$ $\searrow$
Abstract	
<b>Objectives/Goals</b>	Unit about the most
effectively.	would absorb sound the most
Methods/Materials	$\mathbf{i}$
R13 fiberglass insulation, 15" hardboard box, corrugated foam, could give til	es, acoustic meter, alarm. This
project measured the amount of decibels of sound emitted from the hardb	oard box using different
Results	$\searrow$
The amount of decibels emitted from the insulated box was perpared to	when the box was not insulated.
The findings showed that R13 fiberglass most effectively insulated the b	x. Ceiling tiles insulated it the
second most effectively, followed by corrugated foam	
R13 fiberglass absorbed sound the most effectively because it was the thir	ckest material. This is the reason
why it is commonly used as a source of soundproofing for buildings.	ekest material. This is the reason
$\sim$	
Summary Statement	
As I conducted this project, I found that the thickness of materials contrib	butes greatly to its ability to
acsorb sound.	
Help Received	
I received assistance in creating the hardboard box but conducted the rese	earch and experiment
independently.	