

CALIFORNIA SCIENCE & ENGINEERING FAIR 2018 PROJECT SUMMARY

Name(s)	Project Number
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	38085
Project Title	
Which New Electrical Greeker Dredwood the Dest All Around Sound?	
which Non-Electrical Speaker Produces the Best All	Around Sound ()
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Abstract (Cash	
The purpose of this project was to figure out if the more holes a non electrical	grankallans, is batter or
worse I said that if the speaker had 2 holes compared to a speaker thethead 4	holes it would be the louder
speaker My hypothesis was correct. The 2 speakers I compared were both ba	de of the same material and
had the same size holes on all sides so, that means my independent variable w	a the amount of holes the
speaker had. From conducting this experiment, I learned that when a son-elec	rical speaker has more
holes it absorbs the sound more instead of making the found project out louder. When I compared both	
the speakers to the original phone speaker both of the speakers to the original	phone speaker both of the
speakers were louder so it did make a difference in the sound.	
Methods/Materials	
Take the bamboo and cut it into 3, 8in pieces	
Put 1 of the slotted pieces of hamboo to the side, that is you first speaker	
To start the second speaker take the other slotted niece of hambod and drill a hole straight through the	
side, so that it is perpendicular to the other tunnel going through the bamboo	
After that take the unslotted piece and cut it so that it will connect to the other	bamboo piece and go
straight through the holes you just made \sim	1 0
After that take the pieces and glue them as perfectly in line with the other holes as you can	
Test and compare the sound volume of both speakers by using a sound level meter	
Results	
The speaker with 2 noises was amost anyays louder than the one with 4 noises. The only time the speaker with 4 holes was louder was when a sing was most and at 0 ft. When I was testing using http://www.compare.com	
with 2 holes was always louder	
Conclusions/Discussion	
The speaker with 2 holes was buder man the speaker with 4 holes overall. It seemed that when I tested	
with music and measured it un close the speaker with 4 holes was better than the one with 2 holes, but all	
the other points taken with sustained with a steady sound showed that the speaker with 2 holes was	
better.	
Summary Statement	
My project was about comparing two non-electrical speaker designs to see if i	t change the volume of the
Help Received	
None	