

CALIFORNIA STATE SCIENCE FAIR 2011 PROJECT SUMMARY

Name(s)	Project Number
Niko Lopez	
	31940
Project Title	
Visible Sound: Does the Surface Material Affect the Vi	sible Patterns
Created by Sound Vibrations?	
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Abstract	
Objectives/Goals	
The objective of this project was to understand if the surface material of an object transmit vibrations.	at affected its ability to
Methods/Materials	\bigcirc
Lused 12"x12" metal and acrylic plates that were connected to a rice that was fir	may mounted to a table. I
poured salt evenly across the surface of the metal plate I then used a violin box	and ran the bow down the
side of the plate as if I was playing an instrument. I then experimented by placing	ng my fingers in different
places and bowing in different places to get different images repeated the sam acrylic plate.	ne experiment with the
Results	
The metal plate created many more clear images than the acrylic plate did. The	acrylic plate images were
very slurred and uneven.	
Conclusions/Discussion My conclusion was that the surface material of an object has an effect on the object has a constant of the	icata ability to transmit
vibrations, as seen by the metal and acrylic plates	jects admity to transmit
violations, as seen by the inetal and acrylic places	
Summary Statement	
My project is about weather the surface material of an object effects it's ability	to transmit vibrations.
Help Received	
Mother took me to the hardware store to have them help make rig.	
natural took the to the hardware store to have them help make 11g.	