

CALIFORNIA STATE SCIENCE FAIR 2016 PROJECT SUMMARY

Name(s)	Project Number
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	36610
Project Title	<u> </u>
Measuring the Speed of Sound	
Abstract	
Objectives/Goals The objective of this study is to measure the speed of sound in air at different te	roperatures.
Methods/Materials	
Microphones, computer software, cables, amplifier, mixer, 2 blocks of wood	
Used wood blocks to generate sound. Used 2 separated microphones and composition sound. Analyzed sound records to obtain time taken for sound to travel between	per program to record microphones.
Results Sound moves faster in higher temperatures. The experiment was able to measur	e the speed of sound to
within about one percent of the accepted value.	e the speed of sound to
Conclusions/Discussion It is possible with quite available materials to obtain a right accurate estimate	of the speed of sound. The
largest source of uncertainty was in the separation distance of the two micropho	ones. Such uncertainty
could be reduced through the use of longer cables connecting the microphones.	
Summary Statement	
I measured the speed of sound in air using simple materials and found that it include temperatures.	reases with mgner
Help Received	
I designed the experiment, carried out the measurements and analyzed the results.	