

CALIFORNIA STATE SCIENCE FAIR 2017 PROJECT SUMMARY

name(s)	Project Number
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Project Title How To: Breaking the Fire Barrier	
Objectives/Goals Abstract	
The objective of this study is to find out what range of frequencies extinguish a fire of a given flame the fastest, and most efficiently Methods/Materials	es paired with which decibel counts
Subwoofer, timer, ruler, frequency generator, and decibel meter. subwoofer, which was connected to the frequency generator, the how long it took to extinguish the flame.	Measured the decibel output of the flame height of the lighter, and timed
Results After different flame heights, frequencies, and decibel counts we worked the best followed by 35 Hz, 30 Hz, 25 Hz, then 20 Hz wh frequencies were most efficient paired with the higher experimer were the same for a flame height of 1 cm and 2 cm. Conclusions/Discussion After the tests were completed, it was concluded that the best fre between 30 and 40 Hz. It is also the most efficient to extinguish to with a high decibel count because the higher the decibel count, th extinguished.	ere tested, the results showed that 40 Hz hich didn't extinguish anything. These hted decibel count of 94.1 dB. The results equencies to use to extinguish a fire are the fire from a distance of 1 cm or less he faster the flame gets
Summony Statement	