

CALIFORNIA STATE SCIENCE FAIR 2016 PROJECT SUMMARY

Name(s)	Project Number
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	36827
Project Title	$\langle \rangle$
Wicked Wave Walls: The Effect of Different Types of Walls on the Distance a Wave Will Travel	
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Abstract	
Objectives/Goals	i and the shortening the
The objective of this experiment was to test the effectiveness of various wall de distance a standard size wave would travel.	signs on shortening the
Methods/Materials	\bigcirc
Wood, pulleys, water, box, brick, string. I created a pulley system that would h	istan piece of wood out of a
Wood, pulleys, water, box, brick, string. I created a pulley system that would h box containing water to create a standard sized wave. Using three different wat was able to tell what type of wall worked the best at preventing a wave from pr	l designs that I created, I
was able to tell what type of wall worked the best at preventing a wave from pr	bpagating the farthest.
Results My results proved my hypothesis to be correct. For example the vertical will	was nearly equivalent to
My results proved my hypothesis to be correct. For example, the vertical valle having no wall at all. Also, the vertical wall with holes worked a little by bette	r, and the vertical wall with
a board at a 90 degree angle on top worked the best at stopping the wave.	-,
Conclusions/Discussion	
The vertical wall with a board at a 90 degree angle on op, worked the best at st	opping a wave. If a
community wanted to protect itself from large waves, the city could build this t experiment showed that it was the most effective at stopping waves from travel	ype of wall because my
experiment showed that it was the most effective at stopping values from traver	ling the farthest.
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Summary Statement	
I tested the effectiveness of different wall designs at preventing the propagation	of a standard sized wave.
Help Received	
I designed, built, and conducted the experiment myself, except for the wood my father helped me cut	
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