

CALIFORNIA STATE SCIENCE FAIR 2002 PROJECT SUMMARY

Name(s)	Proiect Number
Philip M. Dettinger	
Project Title	
Do Liquid Objects Travel Farther than Solid Objects when Thrown?	
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Objectives/Goals Abstract	
The success of this project depended on building a catapult, with the help of	a parent. Using algebra to
calculate the system of weights, and levers needed to throw a water balloon make 28 water balloons that were the same size and weight. Freeze three	the optimum distance. Then
after the other.	them and hung them one
Methods/Materials	
On average, the frozen water balloon went as much as the transfer than the unfrozen water balloon. Results	
This happened because as the liquid water balloons flew three the air they changed into a shape with a lot	
of resistance.	
The intent of this science fair project is to find out whether liquids could cover a larger distance than a	
solid object when thrown with equal force. The success of this project depended on building a catapult,	
with the help of a parent. Using algebra to calculate the system of weights, and levers needed to throw a water balloon the optimum distance. Then make 18 water balloons that were the same size and weight.	
Freeze three of them and flung them one after the other. On average, the frozen water balloon went as	
much as 9 feet farther than the unfrozen water oaloon. This cappened because as the liquid water balloons flew threw the air they changed into a shape with lot of resistance.	
The persons that helped me with this project are: Michael Dettinger and Robin Rierdan.	
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This project was stored to find out if the fact that liquids don't rate in any sh	and makes them travel forther
than solid objects when they are thrown with equal force.	ape makes them traver farther
Help Received	
Father helped build catapult	
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