

## CALIFORNIA STATE SCIENCE FAIR 2014 PROJECT SUMMARY

Name(s)	Project Number
Bryan A. Cuevas	
	34821
Project Title	
Building Shock Absorbers for a Bicycle	
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Objectives/Goals Abstract	
The goal of my project is to create a shock absorber that will be cheaper and as	efficient as a store-brand
shock absorber.	chiefent as a store-brand
Methods/Materials	$\smile$
An acrylic sheet, two acrylic tubes, two springs, a solvent, and a power tool are	ngeded to create the
shock absorber. You must cut three circles for the ends of the tubes to help with circular coverings should be small enough to fit inside the interior tube. One of	stability. One of the
circular coverings should be small enough to fit inside the interior tube. One of	the other coverings should
be small enough to fit tightly within the exterior tube. The last sovering should	cover a bit over the edge
of the interior tubes outside end. Then you drill a hole into each of the three circ air pressure. Then you would attach the springs to the end of the interior abe th	et would fit inside of the
exterior tube.	at would fit filside of the
Results	
My shock absorber handled a good amount of weight and was cheap to build. It	is also as durable as a
store-brand shock absorber.	
Conclusions/Discussion	
My conclusion is that I fulfilled my goal, and that crylic could be used instead	of metals, like aluminum,
because it is light, cheap, and durable to use.	
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(a, b)	
Summary Statement	
I am creating a shock absorber that will be cheaper and as efficient as a store-br	and shock absorber.
Help Received	
My teacher, Mr. Robison, helped me obtain certain items, and Good Karma Bik	tes gave me the bike parts
for my project.	our pure