

CALIFORNIA STATE SCIENCE FAIR 2011 PROJECT SUMMARY

Name(s)	Project Number
Corina Galvan	
	31274
Project Title	
A Brighter Future Starts Here!	
Abstract	
Objectives/Goals The objective is to determine if the PSI of steam affects the volts transferred in	a 1 Volt light bulb I
believe that the higher amount of steam stored in the pressure vessel will increa	the voltage in the light
bulb.	
I conducted 120 trials, with varying levels of PSI from one to seven, and was at	ble to determine the volts
of electricity transferred into the light bulb using a volumeter. To obtain the res	ults needed, the following
connected to a die-grinder, connected to a generator, connected to the ligh out	o and finally the voltmeter.
Results	······
The higher the PSI of steam, the more volts the light by the fast Eventually the p blew out the light hulb, making seven PSI the maximum limit. The average vol	ower was so strong, it t with one PSI was 428
then .52 for two PSI, continuing on through six PSI and finally 1.49% for seven	PSI. The volts produced
continued to increase as the PSI of steam did.	
After comparing my hypothesis and results, I determined they were quite simila	r. The only significant
difference was how the volts transferred did not stay a constant difference betw	een each PSI level and
does affect the volt transferred into a 1.5 volt light bulb by increasing, up to the	point of failure.
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Summary Statement	
Using household items to create a geothermal power plant model that utilizes w	et steam to create energy
needed to power a 15 volt light bulb.	
Help Received	
Father supervised the dangerous parts of building and testing.	