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CALIFORNIA STATE SCIENCE FAIR 2002 PROJECT SUMMARY

Name(s)	Project Number
Cory E. Stevenson	
	22199
Project Title	\mathbf{S}
Light, Mirrors, Heat, and Water	
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Abstract	
My goal for this science fair project was to test how mirrors effect the water project	duction rates of solar
distillers.	
Methods/Materials	
I used three solar stills, a parabolic mirror, and a flat mirror. I built both the stills and the mirrors. I placed the three stills out for (24 hor	r) periods (aprox
9:00pm-9:00pm) and placed the two mirrors behind two different stills. One of	the stills had no mirror and
was left as a control sample. I collected the data on temperatures in the afternoo	on (1:00pm-3:00pm) each
day. I then collected the water that each still produced and recorded the data at period	the end of each 24 hour
Results	
My results were that the still with the parabolic mirror produced on average 51 th	% more distilled water than
Conclusions/Discussion	trol, on average.
I learned that mirrors do improve the water production of solar stills. Specifical	lly the parabolic mirror
helps water production more than the flat mirror and the flat mirror produced m	nore than the control.
parabolic mirror would increase water production the most	er production and that the
This experiment shows an effective way to significantly improve the production	of drinkable water from
water with sediments or contaminants.	
Summary Statement	
This project was to test how mirrors would affect the fresh water production of	solar distillation systems.
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my report.	momer helped prooffead