

CALIFORNIA STATE SCIENCE FAIR 2014 PROJECT SUMMARY

Nama(a)	Duckest Namehou
Name(s)	Project Number
Carlos Pacheco; Jose Sandoval	
	34323
Project Title	0-1020
Solar Angles	
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Aha	
Objectives/Goals	tract
This project involves using different angels to test	the power generated by the solar pinel. The goal is to
find the most energy producing angle on the solar panel and to find how different the power absorbed at	
that angle compares to the rest. This has been done by using a small solar panel and setting it at different angles in order to test the power created by the solar panel with apposcilloscope. Upon examination of our	
data it becomes clear that angles have an impact on solar energy absorbed and power produced. Through	
our data it is clear to see how angles have an impa	ct or elergy produced.
Methods/Materials	
The use of solar panels in our project was integral	as we hoped to find the best angle to use in order to
produce the most amount of power from our solar panel. We conducted our experiments thoroughly and discovered the best angle by using a protractor and an escalasscope.	
Results	
Our data showed us how the suns rays have a very different and shiring effect on the angle a solar panel	
is set at. With this data it is very easy to conclude that the angle algolar panel is set at has a great effect on	
nower peaking at 100° but after the peak at 100° the angles lowly decrease again. Although at 40° we	
is set at. With this data it is very easy to conclude that the angle a solar panel is set at has a great effect on the power output of the panel. Our data shows how as the angle decreases the solar panel gains more power peaking at 100° but after the peak at 100° the angles slowly decrease again. Although at 40° we experienced a flux, and we believe this is due to the reflection of the suns rays on the concrete where we	
were conducting our experiment.	
Conclusions/Discussion	
Over the course of our experiment we collected many pieces of data. We took our data and concluded that the angles of a solar panel have a great effect on the power output. We discovered this conclusion through	
our testing using an oscilloscope and a small motor. This conclusion proves our hypothesis and can allow	
our testing using an oscilloscope and a small motor) This conclusion proves our hypothesis and can allow us to form a new hypothesis testing the strength of solar energy produced per solar panel in order to form	
a solar field with the most efficient power output.	
Summary Statement	
Our project is about the impact of angles on solar power.	
our programs around thinpact of ungles on solar power.	
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Help Received	