

## CALIFORNIA STATE SCIENCE FAIR 2016 PROJECT SUMMARY

Name(s)	Project Number
Ana Daisy Torres; Arien Alexandra Valencia	
	36179
Project Title	
How Does Light Intensity Affect the Resistance of a Photokesistor?	
	$\sim$ $\sim$
Abstract	
Objectives/Goals This project examines how photo resistors work and examines new application	for them It investigates
the relationship between light intensity and the resistance of a photo resistor.	of them. It investigates
Methods/Materials	$\smile$
The materials needed for this experiment are: photocell, incander the light but	• 4W, 15W, 25W, 40W,
and 60W), multi meter, laptop, paper, and pencil.	
Results	grann.
By taking the line of the best fit, one can conclude that light	d in LUX) is inversely
proportional to electrical resistance (KΩ). When light intensity increases	the electrical resistance of
the photocell decreases. We only tested light intensity alues between 20 to 850	) LUX. We assume that
our hypothesis was correct. OFD	ce, we demonstrated that
Conclusions/Discussion	
We then found the LUX (light intensity) of each light bulb and graphed our data. On this graph LUX is	
the independent variable and the photocell#s electrical resistance is the dependent variable:	
$\sim$ $\sim$	
Summer Station of Station	
Summary Statement	it has and wise wares
As concluded in our project the more the light intensity is the less the resistance	e it has and vise versa.
Help Received	
Mr.Incze, Mrs.Wilkonson and AHS robotics club	