

CALIFORNIA SCIENCE & ENGINEERING FAIR 2018 PROJECT SUMMARY

Name(s)	Project Number
Anna D. Sohn	
	38268
Project Title	
The Effect of Heat on Bean Plant Growth	
Abstract	
Objectives/Goals The objective of this experiment is to test the effect of heat on bean plant grow	with in relation to climate
change.	
Methods/Materials	
60 bean plant seeds in pots, 3 small greenhouses, 75W heat lamp 160W heat Temperature measured 3 times daily. Moisture measured daily and watered a	12007, moisture meter.
daily over 3 weeks.	Viuligiy. Height measured
Results	7
The hypothesis was proven false; the plants that grew tallest on average of 5	5.3 centimeters, were in the
31 degree celsius greenhouse. The plants that were in the greenhouse measuri an average of 14.1 centimeters. The control, which was 22 degrees cosisus, gr	ew an average of 10.7
centimeters.	
Conclusions/Discussion	a the been alout energy. It was
Measurements over 3 weeks showed that the warmer the greenhouse, the talle observed that the plants in the heated greenhouser were less healthy looking. that heat makes bean plants grow taller, but no necessarily healthier. Future e	This experiment concluded
that heat makes bean plants grow taller, but no necessarily heathier. Future e	experiments, especially ones
regarding climate change, can be built pon with this information.	
$\sim \sim 10^{-10}$	
Summary Statement	
This experiment tests the effects of heat on bean plant growth, specifically in	relation to climate change.
Help Received	
I received basic assistance from my mom. She measured the temperature insid	le the greenhouses once a
day, while I was at school.	