

CALIFORNIA STATE SCIENCE FAIR 2007 PROJECT SUMMARY

Name(s)	Project Number
Anisha Patel	J1525
	JIJZJ
Project Title	
Acid Rain	
Objectives/Goals Abstract	
How does acid rain affect plant growth?	
Methods/Materials	aid min. The min extends is not yeally
I used a solution of 1% and 2% sulfuric acid as a substitute for a acidic because the water molecules in the air combine with the c	
carbonic acid. Acid rain occurs when sulfur dioxide (from smelters and coal burning power plants) and	
nitrogen dioxide (from automobile exhaust and other combustion processes) react with oxygen in the	
atmosphere to form sulfuric and nitric acid. To be considered acid rain, the rain must have a pH of 5.0 or lower.	
Results	
The plant that was given the 1% solution of sulfuric acid actually did a little better than the plant that was given water. It grew a bit taller and had a better physical appearance. The plant that was given water did not die but, just didn#t grow as tall. Although the watered plant did not grow tall it produced lots of	
three-fourth of the way through the experiment. All that was lef Conclusions/Discussion	ft was old, burnt, and dry leaves.
My hypothesis was partly right and partly wrong. I was correct	in the sense that the plant that was to be
give 2% solution acid would die. I was wrong because I had hypothesized that the plant that was given	
the 1% solution would not grow as well as the plant that was given water, but that was not the result.	
Instead the plant that was given the 1% solution was actually growing better than the plant that was getting water. My results determined that in a real life situation, if anyone were to buy Skippy Yellow	
plants and plant them in a pot, it is better to put a 1% solution of sulfuric acid than only water. Basically,	
the plant I selected for this project was acid loving.	
Summary Statement	
How does acid rain affect plant growth?	
Help Received	
Science teacher helped with general guidiance and meterials an	d my dad helped with the board and
pictures.	