

CALIFORNIA STATE SCIENCE FAIR 2015 PROJECT SUMMARY

Name(s)	Project Number
Thomas D. Zumkeller	
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	35409
Project Title	33409
Investigating the Effect of Phosphorous on Radish Seed/Gkowth	
Objectives/Goals Abstract	
My goal was to determine how different levels of phosphorous added to soft we	ald affect the growth of
radish seeds. Methods/Materials	
	ach pot had 5 radish
I used 15 identical small pots that contained 8 ounces of potting seil in each on seeds in each. I marked each pot in groups of 3 and numbered them along with	the amount of added
phosphorous to each pot. The phosphorous measurements were 1/2 tsp., 1/4 tsp. also a control group of just soil with no added phosphorous. Each pot reserved to	
sunlight daily and the same amount of water daily. This was done for 30 days. I	measured each plant
when I saw growth and recorded the growth.	
Results I found that adding 1/2 tsp. of phosphorous to all purpose potting soil will increase the growth of radish	
seeds.	
Conclusions/Discussion I found that phosphorous added to sail on he had been finite and harmful to ple	onto It is important to
I found that phosphorous added to soil can be both beneficial and harmful to plants. It is important to understand the right ratio of phosphorous to soil so that the plant can grow at a faster rate. I thought it was	
interesting that a mineral like phosplorous which is supposed to be good for plants, can be harmful to	
them if you do not understand how to use it.	
Summary Statement	
What arount of phosphorous helps radish seeds grow at the fastest rate.	
Help Received	
Mother typed report.	
monior typou report.	