

CALIFORNIA STATE SCIENCE FAIR 2016 PROJECT SUMMARY

Name(s)	Project Number
Nicolas A. Martinez	
	36304
Project Title	
Is Your Kitchen Trash Useful? The Secret Power of Eggshell Powder	
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Abstract (
Objectives/Goals My project is about the use of arganic factilizer like a goals all regular on all	If the pash all manudantia
My project is about the use of organic fertilizer like eggshell powder on plants, a good organic fertilizer, then the medium amount (1/4tsp) of this fertilizer will	work best for more plant
growth.	twork best for more plant
Methods/Materials	\checkmark
This project included grinding the dried eggshells until powder consistency is top soil with the eggshell powder at different concentrations (1/8tsp, 1/4tsp and	brained. Then mixed plain
top soil with the eggshell powder at different concentrations (1/8tsp, 1/4tsp and	1/2tsp) making 3 different
group plus a control group (no fertilizer). Grass seeds were added to each por (pot) including a control group for comparison. Then I watched them grow for comparison.	Sweeks Fach not grew
between 20-40 grass plants. I measured the 3 tallest grass plants for each pot an	nd calculated the average. I
recorded the results (average growth for each group of pots and pH) and made	the graphs.
Results	
I discovered that this organic fertilizer did not change the acidity of the soil (plane) amount of fertilizer (1/2 tsp) was the one with lowest height and the group with	I). The group with highest
was the most successful with an average height of 18 inches. These results show	wed that this organic
fertilizer worked but it did not work out the way I predicted.	wed that this organic
Conclusions/Discussion	
The hypothesis was incorrect because my estimation on the amount of fertilized plants the tallest was off. The best result was achieved with the smallest amount of the smallest amount	r that would grow the
plants the tallest was off. The best result was achieved with the smallest amour	at (1/8 tsp). The results
varied within the different groups of amounts of fertilizer. I was surprised that highest amount (1/2 tsp) of fertilizer had the shortest pleasurement. I discovere	the group of pots with the
did not affect the acidity of the soil because the pH remained the same for all o	f the plants including the
control group (pH8). I think the 1/8 tsp measurement was the most successful to	because the size of the
small pot only allowed 1 cup of soil and this amount of fertilizer must have been	en the right proportion for
that amount of soil.	
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Summary Statement	
Eggshell powder is a great organic fertilizer when it is used in the right proport	ion for your plants.
Help Received	
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