

## CALIFORNIA SCIENCE & ENGINEERING FAIR 2018 PROJECT SUMMARY

Name(s)	Project Number
Will A. Myatt	, v
	J1212
Project Title	
The Impact of Fertilizer on Water Quality	
Abstract	
<b>Objectives/Goals</b> The objective of my experiment was to test how different types	of fertilizers affect water quality and
aquatic microorganisms. Methods/Materials	or refunzers arreet water quanty and
To conduct this experiment, I filled 7 cups with pond water and	1 cup with distilled water, and put
different fertilizers in each cup. The fertilizers were Lawn Ferti day, I would test the pH, Total Dissolved Solids (TDS), Electric each cup and record my results.	lizer, Lawn Starter, and Compost. Each
Results	
After experimentation, the most relevant data was the slope of t 0.97% decline for Lawn Fertilizer, a 0.31% decline for Lawn St 0.47% decline for the No Fertilizer, and a 0.74% decline for Dis	tarter, a 0.17% decline for Compost, a
Conclusions/Discussion	
My experimentation shows that the Lawn Fertilizer caused the tacaused the slowest decline. This data proves the hypothesis that ecosystem, and that the Lawn Fertilizer is the worst for the water	Compost is the best fertilizer for the water
Summary Statement	
I proved that the lawn fertilizer with the most nitrogen had the recosystem, and the compost had the most beneficial effect.	most harmful effect on the water
Help Received	
I conducted the experiment by myself. Mrs. Bertram, a retired s	science teacher, let me borrow equipment
and gave me guidance. Mrs. Wangnoo let me use her classroom for my experiment and checked my math. Soil Born Farms let me use their compost. Chrissi Brewer let me interview her for research.	