Newport Donors Choose Proposal
2016 - 2017

My Students

A few students in my AP Environmental Science class have gathered together in order to establish a working aquaponics model. They have participated during the summer in a project led by the Institute for Systems Biology, where they delved into environmental science topics, especially sustainability.

This fall, these highly motivated students are taking a progressive step to actually create the model themselves; the model will also be used in various classroom activities when explaining all relevant environmental science concepts. This group learns best by visual and hands-on learning, and have been looking forward to provide an addition in the classroom with a professional feel and inspiration for others to take action in the things they learn. They have been working very hard to finish all the blueprints and designs, and all they need now are the materials to build them!

My Project

In order to teach my students about important concepts about the nitrogen cycle, food security, and sustainable agriculture, we want to build a student-maintained aquaponics sytem in our AP Environmental Science classroom. To teach these topics in a more hands-on and visual way, an aquaponics system inside the classroom would be a great learning opportunity. By collaborating with other students and formulating ideas about the system, my students can better their critical thinking skills, all while learning more about new technologies in the food and agricultural business.

More so, this project is a gateway to learning about food security and the growing global food crisis that we face today and in the future. Traditional agricultural practices are outdated and wasteful, and the food security in inaccessible or poor regions of the world is low. By educating more students about sustainable food production and its alternatives, we can fix a pressing global issue at a local level.

How your money is used

Item	Cost	Item Full Name	Vendor
Clay pellets	22.97	Home Depot	Home Depot
Tray	28.00	Molded Fiberglass Stacking Container (23-3/5 x 12 x 6)	
Plastic Tubing	9.91	7/8 in. O.D. x 5/8 in. I.D. x 10 ft. PVC Tubing	Home Depot
Pond Liner	39.00	6’ x 10’ Flexible PVC Pond Liner	Pondliner
Gravel	5.99	Petco River Rock Shallow Creek Aquarium Gravel, 5 lbs.	PetCo

Fish	1.59*5=19.45	Red Wag Swordtail	Petco
Fish Food	16.99	Tetra Min Tropical Flakes	Petco
Water Pump	24.99	Top Fin Power Head Pump	PetSmart
Seeds	3.30	Genovese Basil Seeds	Home Depot
Total	$170.60		
Shipping from	$17.69	Pondliner	
Tax (Estimated)	$17.89		
Total	206.18		

Thank you for your interest in my students' project, we appreciate all your help!