

School Name, Address, and Phone Number:

Carroll County High School
1706 Highland Ave.
Carrollton, KY 41008
502-732-7075

Proposal Author’s Name, Email, and Phone Number:

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Project Abstract:

Title: Hydroponic Greenhouse

Level of Funding: Faculty Level - \$2,000

Summary: **The addition of hydronic systems in our greenhouse will allow us to produce fresh produce for our cafeteria and school food pantries.**

Goal 1 – To increase student engagement and efficiency in classes.	
Objectives for Goal #1	
1	Increase student consumption of healthy vegetables.
Outcomes for Goal #1	
1	Allow students hands-on experience with plant growth and food processing.

Statement of Need: The school cafeteria purchases fresh produce already. Producing vegetables on site would allow for a financial savings to the district, with all excess being distributed through the school-based food pantry. Our district currently offers daily salad options at all schools, and all produce is purchased from outside our community. A large portion goes to waste due to students’ dislike for vegetables. Having a student-raised food product readily available to our cafeteria and publicizing that the produce was harvested earlier that week from the school greenhouse can only increase student intrigue and interest in the vegetables presented to them. The cafeteria will save on food loss as well because all produce will be fresh and never prepackaged, ensuring its freshness when it enters the building.

We are asking for a variety of growing types to allow for student engagement and demonstration in various types of growing systems, all supported by hydroponics.

Program Description: Students will be in engaged in every step of the process from planting, care and harvesting of produce. With these systems, we can grow a variety of

vegetable plants from lettuce to tomatoes and even attempt strawberries and green beans. Student engagement and interest along with the cafeteria's need will drive the plant choices in the greenhouse. Greenhouse students will be involved in plant selection. Plant growth habits and environmental conditions can be tested through experimental classroom projects.

Total Project Budget: 2097.85

Line Item Project Budget:

You may list your budget in the space below OR upload a pdf of the project budget.

Equipment	Price per unit	Seller	Quantity	Total
Big Boy Ebb and Flow Hydroponics System	302.90	HTG Supply	1	302.90
Big Boy 6 Pot Expansion Kit	99.95	HTG Supply	1	99.95
CropKing NFT 8-25	1,696.00	HTG Supply	1	1695.00
TOTAL				2097.85
<ul style="list-style-type: none"> • The program will cover the additional 97.85 along with shipping fees incurred. 				

Evaluation:

The teacher will issue a report to the R.C. Durr Foundation no later than Dec. 31, 2021, that reports on the amount of produce produced from the system.

Project Start Date: Fall 2020
 Answer if known at this time.

Project End Date:
 Greenhouse will be used on ongoing basis.