



Educational Foundation of Lake County

## 2018-19 Duke Energy Foundation STEM Grant

DEADLINE March 15, 2019 4:00 pm Foundation Office via Jackrabbit or Email  
(weidnerg@lake.k12.fl.us)

- This Classroom Grant is for 2018-2019 school year.
- Funds must be used to address a STEM related project.
- All funds must be used by May 1, 2019. A final program evaluation must be submitted by May 15, 2019.
- Requires signature of principal and requesting party

Contact Information	
Applicant Name: <i>Glynnis Barnhart</i>	Position: <i>Biology/Env. Sci. Teacher</i>
School: <i>Alee Academy Public Charter High School</i>	
Address: <i>1705 E. CR 44 EUSTIS FL 32736</i>	
Phone: <i>352-357-9426</i>	Fax: <i>352-357-8426</i>
Email Address: <i>barnhartg@aleeacademy.org</i>	

Detailed Project Information
Project Title: <i>"Growing Our Groceries"</i>
What priority area(s) will your project address: <i>Sustainable Gardening</i>
What is your estimated start date: <i>April 15th, 2019</i>
Estimated number of teachers who will participate in this project: <i>1</i>
Estimated Number of Total Students Impacted by project: <i>150-200</i>
Grade Levels to be Addressed: <i>9th, 10th, 11th, 12th</i>

Program Background:
<i>Alee Academy is a Title I, at risk school with students enrolling for a myriad of reasons. Our mission is to challenge students so they can fulfill their academic and personal potential. With many students on a lower socioeconomic level, teaching sustainable gardening will benefit them for years to come.</i>
Project Summary: <i>My Biology and Environmental Science classes will start vegetable, herb and flower seeds in rock-wool cubes in the classroom. They will prepare our 6-tower hydroponic garden by clearing weeds, cleaning the towers, and hooking up the pumps. They will prepare the garden for efficiency and functionality and maintain it throughout the season.</i>
Need: <i>pea gravel for the garden, which is enclosed by fence, approximately 15' x 30' x 3" = \$1088.00 (10 tons x \$109 per ton, Brown River gravel); hydroponic nutrients 6 liters @ \$80.00; 150 net pots @ \$18.99 for 50 = \$56.97; sun screen fabric @ \$1.96; plant clips @ \$8.99/40; Easy haul Green Wheel barrow, (2 @ \$109); gardening gloves - 20 pr. @ \$5.00 ea.</i>
Project Goals and Objectives: <i>All students will participate in starting seeds indoors, preparing hydroponic towers for use, planting sprouts in the towers, harvesting the produce, and maintaining the garden. Students will take away the knowledge of how to grow a sustainable hydroponic tower garden, and they will be able to explain why sustainable gardening is important to our planet.</i>

CATEGORY OF EXPENDITURE	DOLLAR AMOUNT	RELATED ACTIVITY
Other Equipment		
<ul style="list-style-type: none"> <li>Brown river gravel</li> </ul>	1,088.00	Garden prep and maintenance
<ul style="list-style-type: none"> <li>Hydroponic nutrients</li> </ul>	80.00	Feeding and sustaining plant growth.
<ul style="list-style-type: none"> <li>(150 net pots)</li> </ul>	56.77	Planting spouted seeds in net pots
<ul style="list-style-type: none"> <li>Sunscreen fabric</li> </ul>	81.96	Shade for the hydroponic tower area
<ul style="list-style-type: none"> <li>Wheelbarrow</li> </ul>	2 x \$109.00	Maintenance
<ul style="list-style-type: none"> <li>Garden gloves (30 pair)</li> </ul>		All work
<ul style="list-style-type: none"> <li>Plant clips</li> </ul>	2 x (40/8.99)	To contain growth securely
<ul style="list-style-type: none"> <li>Miscellaneous</li> </ul>	295.27	Incidental care and repair



**Evaluation Plan:** Describe how you will measure outcomes and evaluate your project.  
*Students will follow a checklist and rubric to ensure 100% participation. Before the end of school, students will write a report that includes information about sustainable gardening as well as their feelings about their personal experiences with the garden.*

Budget		
Category of Expenditure	Dollar Amount	Related Activity
Computer Hardware		
Computer Software		
Other Equipment (not computers)	* See attached	
Competition Registration Fees		
Program supplies		
<b>TOTALS</b>	<b>\$3000.00</b>	

Program Approved By: Robert M. Walentin  
Principal  
 Funds Payable to: Alee Academy  
 Address: 1705 E. CR 44  
East's, FL 32736  
 Phone: 352-638-7154 Email: barnhartg@alee.academy.org

*Requesting party has read and agrees with the funding policies of the Educational Foundation.*

Signed Sydney Barnhart Date 3/14/19

*To be completed by foundation staff/board*

Program meets Duke Energy Foundation's Mission/ Funding Policy Y N

Director Recommendation: \_\_\_\_\_

Executive Board Recommendation: \_\_\_\_\_