

Glassboro Education Foundation, Inc.

Send the completed application to the attention of:

Dr. Robert Preston
Beach Administration Building
Joseph L. Bowe Blvd
Glassboro, NJ 08028

A. General Information

Applicant(s): ___Lisa Montana_____

School: ___Bowe_____

Principal: ___Craig Stephenson_____

Grade Level or Subject: ___7th Grade Science_____

Phone: (school) ___856-652-2700___x8209_____ (Home): ___949-525-7078_____

E-mail(s): _____lmontana@gpsd.us_____

B. Statement of Assurances:

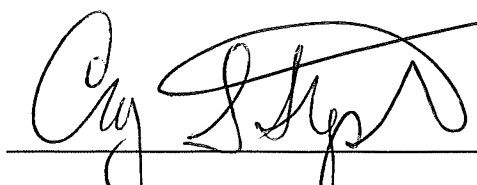
The applicant hereby assures the Glassboro Education Foundation that:

1. The applicant(s) meet(s) the eligibility criteria.
2. The activities and services for which the grant is sought will be implemented as written.
3. Any monies not expended within the school year shall revert back to the Glassboro Education Foundation, unless permission to carry it into the next school year is granted.
4. All publicity releases regarding a funded project will acknowledge the Glassboro Education Foundation and/or a particular mini-grant sponsor as the funding agency.
5. The grant recipient(s) will submit a final report summarizing the project's evaluation results.
6. The Board of Education authorizes the filing of this application.

We do hereby certify that all of the facts, figures and representations made in this application are true and correct to the best of our knowledge and that the assurances as stated above are understood and will be followed in their entirety.



Signature of Applicant



Signature of Principal

Please note: from this page on, please **do not include your name or your school** in any of your descriptions as all applications are coded to prevent bias.

C. Project Title and Description

Title of Project: ____S.T.E.A.M into Monarch Conservation_____

Subject Area(s):____Middle School Science and STEAM_____

Approximate Number of Students Participating: _____150+_____

Project Starting Date:____Fall 2023_____Project Completion Date:____Spring 2024_____

Need: Describe the problem or deficiencies that exist which require the improvements described.

____1. Populations of Monarch butterflies have declined more than 80% since the 1990s due to multiple factors including loss of habitat, pesticide use, climate change and deforestation. Milkweed plants are the primary habitat for Monarch butterflies and the use of Round Up on genetically modified crops has reduced the number of host sites for populations of butterflies. Monarch butterflies are considered a flagship species for conservation efforts due to their social and cultural importance and familiarity, especially with young children.

<https://xerces.org/monarchs/conservation-efforts>

<https://monarchjointventure.org/blog/monarchs-as-a-flagship>

2. Our students are increasingly disconnected from the natural world and struggling more and more to see the benefits of a biodiverse ecosystem and the importance of the outdoors as a learning environment.

3. There is an empty courtyard space that needs some love/attention.

4. Students often struggle to find something to be passionate about and in the brief amount of time that I have brought Monarchs into the classroom this year, they are eager to learn more and excited about taking on the Monarch conservation effort.

Strategy: Briefly describe your plan to alleviate the need/problem.

____Students will use strategies that I learned at summer PD (STEAM into Monarch Conservation) to plan, design and build a pollinator garden in the school garden courtyard. They will begin by taking a baseline measurement of biodiversity in the space, using the iNaturalist app and observations as well as taking measurements. Next, students will plan out a design for the space, including using research on the plant plugs received to determine the best layout for the pollinator garden. In the spring, students will plan out how to clear the space and classes will begin to build and plant using grant funded materials. As a final project, students will again take a measure of biodiversity and compare it

**Glassboro Education Foundation
Grant Application**

D. Objectives, Activities and Evaluation Techniques (This page may be duplicated if necessary)

Objectives	Program Activities to Accomplish Objectives	Completion Date	Evaluation Techniques
<ol style="list-style-type: none"> 1. Increase student engagement and sense of agency/interest in the natural world 2. Inspire students to think like engineers and scientists 3. Celebrate diversity in science and STEM fields 4. Instill an understanding of the impact and importance of a multicultural approach to science education 	<p>Subscribe to monthly <i>Science World</i> magazine</p> <p>Incorporate current science news into daily lessons</p> <p>Incorporate Monarch conservation and the life cycle of the butterfly into yearly lessons and units in the beginning of each school year using the biodiverse garden space created</p>	<p>June 2024</p>	<p>Monitor student engagement and interest, class discussions/presentations</p> <p>Document before and after pictures, document student designs, engage with the community through teacher Instagram page @gisgreenproject</p> <p>Compare biodiversity measurements before and after planting</p>

to the baseline. In the fall of 2024, students will use the new Monarch Butterfly waystation space to observe and document the life cycle of the butterfly, while recognizing the importance of the Monarch in Hispanic Culture, coinciding with the celebration of Hispanic Heritage Month 2024.

Glassboro Education Foundation
 Grant Application
 E. Itemized Budget

Materials/Equipment	Services	Evaluation Techniques
<u>Item(s)</u> <u>Cost</u> Scholastic Science World \$329.67 Magazine (30 student subscription) Northeast Pollinator Wildflower Seed Mix \$12.95 1lb Monarch Butterfly Wildflower Mix \$ 59.95 Medium Raised Garden Bed with Cover \$ 349.00 Butterfly Life Cycle Figurines 5@ <u>\$10.95</u> Soy Seal Wood Sealer \$33.95 Outdoor Mat Large \$99.95 Apple tree with bulb \$50.00 6 plastic clipboards \$20.00 Rubbermaid Large Storage bench \$180.00		<u>Item(s)</u> <u>Cost</u>
		<u>Sub-total:</u>

Personalized Milkweed seed packs @200

and Pack of Milkweed seeds

\$120.00

Leaf Compost \$30/yd

Cedar Mulch \$30/bag@4
bags

Birdbath \$60.00

Bird Nesting Box 10@\$11

Native plant plugs \$120.00

Sub-total: \$1767.00

Grand Total \$1767.00