ABOUT YOUR PROJECT

Please answer each of the following questions. If more space is needed, please attach extra pages. Please avoid using names of specific teachers and/or schools in your responses as all grants are blinded for review.

PROJECT TITLE: **Coding for Elementary Students**

PROJECT DESCRIPTION

1. Briefly describe the project, please include the project's goals and how they will be attained and measured.

The project "Coding for Elementary Students" is a project that I started last year to introduce young students to basic programming concepts using mini app-enabled programmable robot balls. The goals of this project were and still are to introduce the basics of coding, encourage students to think critically, incorporate thinking creatively, and provide opportunities to problem solve. In addition, it promotes collaboration among small groups of students. The goals of the project are being measured through completion of coding projects.

Since the original Sphero Mini kit only comes with 16 robots, I would like to have 8 additional Sphero Minis so that I can allow a full classroom of students to have their own robot to use during our activities. Also, the extra robots will allow more students to participate in the after-school class and will include a few extra robots in case one is not working properly.

Innovation and Enhancement of Learning

2. Explain what makes this project innovative. How will assist you in meeting the needs of our students? Please be specific and provide data to support the need if possible.

What makes this project innovative is that it integrates coding, critical thinking, and problem-solving skills which are core 21st-century skills. In addition, it provides opportunities to be creative and

collaborative through interactive learning. This project will give more students at Bower Hill an opportunity to learn and explore coding. As the world becomes more technology-driven, it is important to learn these skills at an early age.

AUDIENCE & SUSTAINABILITY

3 (a). Describe the student population targeted by this project. Might this project be repeated with new students in future years? Explain.

I have been using the coding robots with after school classes and students in my own classroom. I will continue to offer the after-school classes and need a few more robots so that each student can have their own to use during the class. In addition, I will continue to use the robots with my class of students and share with other 3rd grade teachers and it will be helpful to have a full class set.

3 (b).How many students will be served?

This number is difficult to say but the 3rd grade classes at Bower Hill total approximately 200 (this year.) It will depend on the number of students that sign up for an after-school class. Currently, I am offering two winter after school classes and need more robots so that students can have their own to use.

PROJECT EVALUATION

4. How will you evaluate the success of this project? What data, criteria, assessments, surveys, statistics or other measures will you use to assess its impact?

I have been evaluating the success of this project as I use it with students. I have used Exit Tickets to assess as well as discussion as projects are completed. Throughout the Fall After School Class, parents have told me how much their children have enjoyed using the coding robots and they have become a popular Christmas gift! In addition, students have raved about how much they are enjoying it and want to participate again. Each time I have used the bots with the students in my classroom, they have amazed me with how quickly they pick up on the coding skills and have occasionally referenced them while learning other subjects.

BUDGET

5. Please provide the following information for the items you intend to purchase for this project (please include shipping costs, if applicable). If some of the items you will use to carry out this project are being paid by using funds from sources other than the GEO Grant (i.e., the school district, other grants, etc.) please include these items but enter zero (0) for the amount. This will let the reviewers know that the project is completely sustainable even if the Foundation is not financing the entire budget. Attach additional pages if necessary. Briefly describe any items that may be unfamiliar to the application reviewers.

Please consider your "ideal" request and also what you would be willing to accept if funds are limited. (For example, if 20 items for your classroom is ideal, but you would accept 5 or 10 and have students work in groups please indicate that below.)

	ITEM	UNIT PRICE	TOTAL	TOTAL* (if you will accept less based on funds available)
1	Sphero Mini Robot Coding Balls	$59.00	8	$472.00
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15	Estimated Taxes			30.00
		BUDGET TOTAL:		$502.00

IMPORTANT NOTE: In order to ensure that projects including technology are priced properly, employees requesting technology or technology related items must submit prices for review to Adam Swinchock, Director of Instructional Technology. **Technology proposals without his signature will not be considered by the committee.** Please also consider allowing for a 2-4% increase in pricing as pre-holiday prices typically increase in the new year when we are purchasing the items.

Required for proposals including technology items:

Signature: Date: 1/7/25