Grant Number	1215
Project Title	Bolin's Robotics Club
Please select the **MAIN** curriculum area your grant addresses.	Science
Does your grant have a technology component? (Will you have technology equipment, software, etc. in your budget?)	⦿ No ◯ Yes

Primary Contact Information

First Name	Allyson
Email	allyson.kennaugh@allenisd.org
Confirm Email	allyson.kennaugh@allenisd.org
Last Name	Kennaugh
Phone Number	214-495-6750
Campus	Bolin Elementary
Main Subject	Science - Elementary
Grade(s)	2
I have co-applicants.	☐

Social Media

Please provide your work-related social media contact information.

Facebook	None
Twitter	None
Other (please specify)	None
Grant Number	1215

Campus/Student Information

Your campus:	Bolin Elementary
Will other campus' be involved/impacted by this grant?	⦿ No ◯ Yes
Your grade(s):	2
Will other grades be involved/impacted?	◯ No ⦿ Yes

Please select all grades that will be involved/impacted by the grant.	4
	5
	6

Project Purpose

What is the problem, need or opportunity that this grant will address? Describe the impact of this project on your students. (500 words or less.)

Bolin's Robotics Club is currently in its second year and the interest from our 4th, 5th, and 6th grade students is increasing. With the growing interest, the need for more devices has become what limits the amount of students able to participate. Increasing the amount of robots we have would allow for more students to participate and build an interest in the robotics field. The club also provides students an opportunity to explore robotics before they get to middle school.

Project Description

How will the project or program be implemented? Describe activities and tasks.
Who is the target population and in what ways will they benefit? (500 words or less.)

The club members meet once a week on Tuesday or Thursday, based on the robot they have chosen to work with. The members meet after school for an hour to work on the challenge for their chosen robot. They have 6 weeks to design, build, and code their robot before presenting their project. Some of the challenges our students are working on right now include building the basic driver for the LEGO Mindstorm, designing and building a maze, and then coding the robot to go through the maze and perform a variety for tasks inside the maze. Another project our students are completing is to choose a song and create a painting using conductive paint to connect to their Makey Makey. They will then code the song so another student could easily play the song by tapping on their painting.

Project Summary

Provide a brief summary for use on the Foundation's website and social media. (2-3 brief sentences)

Bolin's Robotics Club meets every week after school to work in collaborative groups to complete different challenges with an assortment of robotics. After designing, building, and programming, the club members will present their robot challenge to their peers.

Allen ISD Goals/ TEKS

Which Allen ISD goals/TEKS does this project support? Provide only two or three examples.

This club supports Allen ISD's Mission statement to cultivate innovation in education that empowers every learner to realize his or her full potential. Bolin's Robotics club also supports the TEKS from Technology Applications 126.6.b.1- Creativity and innovation. The student uses creative thinking and innovative processes to construct knowledge and develop digital products.

Measurement

What specific measurements will be used to evaluate the effectiveness of the project? (500 words or less)

I will measure the effectiveness of Bolin's Robotics Club though weekly observations of the club member's progress in the given challenge, the presentation of their final project, and through the increased interest in the club each semester.

Teaching Methods

What teaching methods will be used to implement this project? (500 words or less.)

At the beginning of each challenge, I provide direct instruction for the robot they are using. After the direct instruction, they begin working on their different challenges in collaborative groups. While they are working in their groups, I assist and monitor their progress as they work on completing their challenges. I also invite professionals in the robotics field to come in and show the students how robotics are used in their jobs.

Timeline

What is the project timeline and the date of implementation?

Robotics club will start in September of 2019 and continue until the end of the school year. Depending on the complexity of the challenge, students will have 6 weeks to complete their challenge. At the end of the challenge period, the students will have an opportunity to present their robots to their peers.

Curriculum/System Support

Explain how this idea or project enhances/supports Allen ISD curriculum or existing systems.

Bolin's Robotics Club supports Allen ISD's STEM curriculum. It also gives our students an opportunity to explore robotics and prepare them for the STEM and robotics courses in middle and high school.

Budget Details ** All awarded funds will be available by September of the next school year.

Budget Item	Item Type	Unit Cost	Quantity	Total Cost
littleBits Electronics Premium Kit	Instructional Supplies or Resources	269.0	1	269.0
littleBits Education Code Kit	Instructional Supplies or Resources	223.64	1	223.64
Sphero 2.0	Instructional Supplies or Resources	129.0	1	129.0
Hexnub Cover for Sphero Ball 2.0	Instructional Supplies or Resources	9.99	2	19.98
Ozobot Bit Education Entry Kit	Instructional Supplies or Resources	99.0	1	99.0
Modular Robotics Cubelets Twelve Robot Blocks	Instructional Supplies or Resources	279.95	1	279.95

BUDGET TOTAL   1,020.57

Are there any additional funds available for this grant? Campus or District Funds? PTA funds? Let us know if you have or will be seeking funds from other sources to help with this project.

Additional funds?   ◉ No

           ○ Yes

Principal Approval Required

Please provide the Name and Email of your PRINCIPAL. (Not your name)

First Name	**Last Name**	**Email Address** (Completed)
Reena	Varughese	reena.varughese@allenisd.org

Applicant Signature

By entering my name below I signify that I understand that if I move within the District and have written the grant myself, I may take the grant with me to my school (as long as it is appropriate for my classes). If I have written the grant as part of a team, I will leave the grant behind with the team. If I leave AISD, I will leave the grant with the school for which I wrote the grant. As a condition of this grant, I will complete an evaluation form provided by the Foundation.

Signature   Allyson Kennaugh

Date   02/01/2019

I certify that this would be a good use of funds for our school and this grant supports the district goals and/or our campus improvement plans. **Do NOT include any identifiers, such as: campus name, your name, teachers name or mascot **

No actions possible.

Comments

Approve

State Change History

State Change   allyson.kennaugh@allenisd.org
02/01/2019 08:04:26

Submitted

State Change   ******
02/01/2019 10:46:47

Accepted

Grant Status

Grant Awarded   ○ Yes

○ No

Award Amount   500