

Foundation For Allen Schools Grant Application

Let's get to know you!

First Name	Brenda
Last Name	Fee
Preferred name/name that you go by:	Brenda
Email Address	brenda.fee@allenisd.org
Best phone number to reach you at:	19726586786
Campus	Olson Elementary School
Grade(s)	3;4;5;6
I have co-applicants:	No
Please provide your work-related Facebook contact information.	N/A
Please provide your work-related Twitter contact information.	N/A

Project Information

Name of Grant	A Spike in Learning with Robotics for Elementary
Please select the MAIN curriculum area your grant addresses.	Science / STEAM
Does your grant have a technology component?	Yes
Does your grant have a need or requirement that will change, alter, or require any maintenance to Allen ISD Properties?	No
Will other campuses be involved/impacted?	No
Will other grades be involved/impacted?	No
How many students will be involved in this grant?	80
Are there any additional funds available for this grant?	Yes

Project Information Continued

<p>What is the problem, need or opportunity that this grant will address? Describe the impact of this project on your students.</p>	<p>Olson Elementary has successfully supported a free Robotics Club for its students in Grades 3-5 for seven years. Using the LEGO EV3 Mindstorms, over 400 students have learned to build and code robots. Initially, our program reached students with prior knowledge or interest in coding. As time has passed, the LEGO EV3 Mindstorm technology is no longer fully supported by LEGO and the programming technology and hardware is severely limited compared to newer technology. Students with no prior knowledge often struggle to learn the complexities of the EV3 Mindstorm. The Allen ISD Technology Department is now recommending and supporting use of the LEGO Spike Prime and is providing kits to elementary schools. In order to replace our old technology with the LEGO Spike Prime, we need to obtain 11 robotics kits. We will have four from the district, funds from our student-led Swim Shop will purchase three more kits and we are looking for funding through the Foundation for an added four kits.</p>
<p>How will the project or program be implemented? Describe activities and tasks. Who is the target population and in what ways will they benefit?</p>	<p>We are looking to bring a simpler coding tool with more building and programming flexibility to our school so our students will learn how to build and code robotics. We currently, offer a Junior Robotics program for first and second grade students. We envision replacing our outdated robotics equipment for students in grades 3-5 with the Spike Prime robots. This means that the learning that students complete in first and second grade will continue as they move into a more updated and flexible coding tool in third through sixth grades. Volunteer teachers will staff a series of after school 6 week Robotics Club programs. With eleven Spike Prime robots we can serve 24 students per session. Any child may participate at no cost. We hope to spark interest in coding and robotics that we may continue to develop as students move into middle school robotics.</p>
<p>Provide a brief summary for use on the Foundation's website and social media.</p>	<p>Olson Elementary is sponsoring a series of free Robotics Clubs using LEGO Prime Spike robots for students in Third through Sixth Grade. These easy to program robots introduce students to the basics of building and coding a functional robot. Purchase of the robots was provided through the Foundation for Allen Schools. Olson Elementary teachers volunteer their time to run the clubs.</p>
<p>Which Allen ISD goals/TEKS does this project support? Please provide 2 examples.</p>	<p>Putting technology into the hands of students. Preparing students for 21st century jobs.</p>
<p>What specific measurements will be used to evaluate the effectiveness of the project?</p>	<p>We will be looking at three key measurements- the number of students participating in the program, the number of students who are able to successfully complete building challenges (and more importantly- design their own challenges) and the degree to which we are able to close the knowledge gap between students who learn about robotics at home and those who do not have that opportunity. Assessment rubrics included with the Spike Prime robots will help measure student proficiency.</p>
<p>What teaching methods will be used to implement this project?</p>	<p>Hands-on, experiential learning offered through certified teachers after school</p>
<p>What is the project timeline and the date of implementation?</p>	<p>If we receive Foundation funding in September 2022 we will launch our club in October 2022 with two subsequent 6 week sessions following in second semester 2023</p>

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

This project builds on technology that we are offering already to our students with the WeDo 2.0 robots by giving any student, the opportunity to develop basic building and coding skills that in the past have been limited to students whose parents invest in this technology. It also brings our coding platform in line with Allen ISD recommendations for the Spike Prime robot

Project Budget

Total Grant Budget Requested:	1359.80
-------------------------------	---------

Project Budget Set Number 1

Item Type	Technology
List item to be purchased under item category:	LEGO Spike Prime Set
Unit Cost	339.95
Quantity	4
Total cost of items in this category:	1359.80

NGB

First Name	Last Name	Email	NGB	Record	Letter
Susanne	Miller	catherine.miller@allenisd.org	RN230862	Name: Rec233239, Status: Submitted	Click on the 'Edit' button to replace this with your letter.

NGB Custom Questions and Answers

Rec233239

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, teacher's name or mascot **	Approve
Please provide comments/feedback for the applicant:	This grant will support Robotics on our campus. Robotics reinforces a number of skills in both math and science.

Technology Approval

Please upload your technology approval here:	Re Need Approval for Grant Submission #AA00006176
--	---

Almost done!

Not Available	
---------------	---