



Foundation For Allen Schools Grant Application

Scholarship Fund Amount: \$0

Application #: AP238651

Applicant First Name: Melissa

Applicant Last Name: Davis

Applicant Email Address: melissa.davis@allenisd.org

Gender:

Cell Phone #:

High School:

Post Secondary School:

Application Status: Submitted

Application Questions and Answer

Question	Answer
Preferred name/name that you go by:	Melissa
Best phone number to reach you at:	+12147094992
Campus	Vaughan Elementary School
Grade(s)	5;6
I have co-applicants:	No
Please provide your work-related Facebook contact information.	
Please provide your work-related Twitter contact information.	@melissamdavis04
Name of Grant	Expanding our Minds with Legos
Please select the MAIN curriculum area your grant addresses.	Science / STEAM

Does your grant have a technology component?	No
Will other campuses be involved/impacted?	No
Will other grades be involved/impacted?	Yes
How many students will be involved in this grant?	20
Are there any additional funds available for this grant?	No
What is the problem, need or opportunity that this grant will address? Describe the impact of this project on your students.	This grant is intended to expand our Robotics Club. The expansion packs will supplement the Lego Mindstorm kits we have to continue the theme of critical thinking and creativity. This grant will deepen the robotics experience with new structural and mechanical elements. With the current kits, the students are somewhat limited in what projects can be built and programmed. These expansion kits will open new possibilities to our students.
How will the project or program be implemented? Describe activities and tasks. Who is the target population and in what ways will they benefit?	The target population will be our older robotic club members in 5th and 6th grade. These students will have experience with the Lego Mindstorm kits already and are ready to move on to explore new ideas. In robotics club, the students work in pairs to build and design their robots.
Provide a brief summary for use on the Foundation's website and social media.	Expanding Out Minds with Legos will deepen the robotics experience with new structural and mechanical elements. The veteran Robotics Club members will be challenged with new and exciting possibilities.
Which Allen ISD goals/TEKS does this project support? Please provide 2 or 3 examples.	This project supports Allen ISD mission statement of creating effective problem solvers and communicators. Robotics Club challenges students to build robots to benefit our future world.
What specific measurements will be used to evaluate the effectiveness of the project?	The effectiveness of this project will be measured by the student engagement and their ability to achieve more from the Lego Mindstorm kits. At this point, students are limited in the projects they can build. The

	expansion kits allow students to express their imagination with the supplemental mechanical and structural elements.
What teaching methods will be used to implement this project?	Initial teacher demonstrations will be helpful to familiarize students with the expectations of each challenge. These will include how to use the Lego Mindstorm building instructions and the possibilities with the new supplemental material. With the additional elements provided by this grant, students working in small groups will now have the opportunity to carry out the techniques demonstrated above first hand. Research indicates that students are more likely to retain the knowledge gained through hands-on learning than through the passive acquisition of knowledge from worksheets. Students will develop confidence and self-direction as they work through both team-based and independent work.
What is the project timeline and the date of implementation?	The grant will be used for the 2020-2021 Robotics Club. Plans are to continue to use the supplemental kits for many years to come to compliment the kits we already have.
Explain how this idea or project enhances/supports Allen ISD curriculum or existing systems.	Allen ISD cultivates innovation in education that empowers every learner to realize his or her full potential. This grant Robotics Club students the opportunity of additional exploration of the Lego Mindstorm Kits. The goal is always progress, and this could lead to the development of completely new lines of inquiry that were not apparent at the outset. It is a great lesson for students to learn that good science is as much about the process as it is about the outcome and that often as much can be learned from a negative result as from a positive one.
Total Grant Budget Requested:	600
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Project Budget Set Number 1

Question	Answer
Item Type	Instructional Supplies or Resources

List item to be purchased under item category:	LEGO MINDSTORM Education EV3 Expansion Set by Lego Education
Unit Cost	119.95
Quantity	5
Total cost of items in this category:	599.75