

## Foundation For Allen Schools Grant Application

### Let's get to know you!

First Name	Lori
Last Name	Allen
Preferred name/name that you go by:	Lori Allen
Email Address	lori.allen@allenisd.org
Best phone number to reach you at:	19727473308
Campus	Ereckson Middle School
Grade(s)	7
I have co-applicants:	Yes
Please provide your work-related Facebook contact information.	Not Answered
Please provide your work-related Twitter contact information.	@ErecksonAllen

### Additional Co-Applicants Set Number 1

First Name	Dawn
Last Name	Byars
Email	Dawn.byars@allenisd.org
Campus	Ereckson Middle School
Grade:	7

### Additional Co-Applicants Set Number 2

First Name	Darren
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Campus	Ereckson Middle School
Grade:	7

### Additional Co-Applicants Set Number 3

First Name	Ashley
Last Name	Hughes
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Campus	Ereckson Middle School
Grade:	7

### Additional Co-Applicants Set Number 4

First Name	Joe
Last Name	Poorman
Email	joe.poorman@allenisd.org
Campus	Ereckson Middle School
Grade:	7

### Project Information

Name of Grant	We Got the Beat!
Please select the MAIN curriculum area your grant addresses.	Science / STEAM
Does your grant have a technology component?	No
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?	600
Are there any additional funds available for this grant?	No

### 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>Students in the science classroom can struggle with making real-world connections to the information they are learning in class. Students taking PE classes may not easily see the direct results exercise has on their cardiovascular health. Providing students with pulse-oximeters will provide a simple way for students to collect heart rate and respiratory data. This will make tangible an abstract concept as they record and graph the results of their effort to increase the function of their body systems.</p>
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<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>Use of the pulse-oximeters will begin at the start of the school year in the PE and athletic classes. The PE teachers and coaches will have the students record a resting heart and respiratory rate to create a baseline data point. After a teacher-determined amount of cardiovascular training, students will take a second set of data. Students will then create a comparative graph of this data and complete a reflective writing prompt analyzing their progress. Coaches and PE teachers will use this data and graph to help guide and direct students toward achieving their personal fitness goals. In the science classroom, teachers will use the pulse oximeters to help students connect the activities of the circulatory and respiratory systems and how they respond in tandem to the stimulus of exercise or rest. Students, using the Argument Driven Inquiry approach, will plan and execute their own laboratory investigation. This approach has shown to increase student engagement and ownership of their work. The pulse-oximeters will be a wonderful tool for the students to use to collect their data. Students will graph data from times at rest as well as during exercise and will be able to make a concrete connection concerning the interactions of these two body systems.</p>
<p>Provide a brief summary for use on the Foundation's website and social media.</p>	<p>EMS students take a pulse on learning while using pulse-oximeters to measure their cardiovascular health and make connections between the circulatory and respiratory systems.</p>
<p>Which Allen ISD goals/TEKS does this project support? Please provide 2 examples.</p>	<p>Science 7.7.12(B)* identify the main functions of the systems of the human organism, including the circulatory, respiratory, skeletal, muscular, digestive, excretory, reproductive, integumentary, nervous, and endocrine systems. 7.2(B) design and implement experimental investigations by making observations, asking well defined questions, formulating testable hypotheses, and using appropriate equipment and technology. PE 6.3(C) establish and monitor progress toward appropriate personal fitness goals in each of the components of health related fitness such as personal logs, group projects, and no space/or criterion referenced tests; and (D) identify and know how to use technological tools used for measuring and monitoring fitness parameters such as computer programs, heart rate monitors, skin-fold calipers, and impedance testing equipment.</p>
<p>What specific measurements will be used to evaluate the effectiveness of the project?</p>	<p>In the science classroom, students demonstrating accurate data collection, graph creation and analysis will be the criteria for success. In the PE classroom, students collecting data and documenting their baseline, monitoring their progress, and reflecting on their personal fitness goals will be the criteria for success.</p>
<p>What teaching methods will be used to implement this project?</p>	<p>In the science classroom the students will engage in an ADI (Argument Driven Inquiry) lab where students will plan and implement their own investigation and peer evaluate their analysis and results. In the PE classroom, students will use Google Sheets and Google Doc to document their progress and submit their reflection and fitness goals on Canvas.</p>

What is the project timeline and the date of implementation?	Students will begin using the pulse oximeters at the start of the school year 2022 in the PE classes. Students will use these again, at a midpoint and at the end of the school year (or semester) to track their cardiovascular progress. Students will apply what they learned in both their math and science classes as they graph and analyze this data and reflect on their fitness goals. The 7th Grade Science team will use the pulse-oximeters during their unit of study concerning the human body systems.
Explain how this idea or project enhances/supports Allen ISD curriculum or existing systems.	The Allen ISD science curriculum is centered around our Science DNA Statements and vision that "We Do Science." This tool will enhance student learning and give them the opportunity to "Do Science". The pulse oximeters will support the AISD curriculum by supporting the TEKS for both PE and Science 7.

### Project Budget

Total Grant Budget Requested:	750.00
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### Project Budget Set Number 1

Item Type	Instructional Supplies or Resources
List item to be purchased under item category:	Pulse Oximeters
Unit Cost	15
Quantity	50
Total cost of items in this category:	750.00

### NGB

First Name	Last Name	Email	NGB	Record	Letter
Leslie	Norris	leslie.norris@allenisd.org	RN238523	Name: Rec240071, Status: Submitted	Click on the 'Edit' button to replace this with your letter.

### NGB Custom Questions and Answers

#### Rec240071

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:	Please review for consideration.

### Almost done!

Not Available	
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