

## Foundation For Allen Schools Grant Application

### Let's get to know you!

First Name	Heath
Last Name	Anderson
Preferred name/name that you go by:	Heath Anderson
Email Address	heath.anderson@allenisd.org
Best phone number to reach you at:	14325596809
Campus	Ereckson Middle School
Grade(s)	7;8
I have co-applicants:	Yes
Please provide your work-related Facebook contact information.	Not Answered
Please provide your work-related Twitter contact information.	@Mrs_Twedt

### Additional Co-Applicants Set Number 1

First Name	Lori
Last Name	Allen
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Campus	Ereckson Middle School
Grade:	7

### Additional Co-Applicants Set Number 2

First Name	Sarah
Last Name	Twedt
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Campus	Ereckson Middle School
Grade:	8

### Additional Co-Applicants Set Number 3

First Name	Bryan
Last Name	Jordan
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Campus	Ereckson Middle School
Grade:	8

### Additional Co-Applicants Set Number 4

First Name	Tanya
Last Name	Carleton
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Campus	Ereckson Middle School
Grade:	8

**Additional Co-Applicants Set Number 5**

First Name	Raul
Last Name	Castillo
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Campus	Ereckson Middle School
Grade:	8

**Additional Co-Applicants Set Number 6**

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

**Additional Co-Applicants Set Number 7**

First Name	Dawn
Last Name	Byars
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Campus	Ereckson Middle School
Grade:	7

**Additional Co-Applicants Set Number 8**

First Name	Darren
Last Name	Gaas
Email	darren.gaas@allenisd.org
Campus	Ereckson Middle School
Grade:	8

**Project Information**

Name of Grant	Growing By Leaps and Bounds
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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?	1200
Are there any additional funds available for this grant?	No

### Project Information Continued

What is the problem, need or opportunity that this grant will address? Describe the impact of this project on your students.	<p>Preparing and guiding our next generation of students to creatively work through challenges is paramount for educators. In order for this to occur, students need to be given opportunities to experience a hands-on approach in the classroom in order to develop grit, learn how to collect accurate data, to research to find valid information then and then to apply this learning in a collaborative setting. We are asking for your help to make this possible by granting the purchase of two Vertical Tower Gardens. Students will use these gardens to learn how to develop scientifically based questions, apply their research through the use of the scientific method as well as develop grit and social skills as they explore and work through this process together to answer their questions. We have used this model of learning this year and have seen great success in all of these areas. As students ask their own questions and develop their own experimental procedures, deeper and more abiding learning takes place. These vertical gardens will provide a living laboratory in which students can explore, experiment, and experience just like real scientists.</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>The Vertical Tower Gardens will be shared between both 7th and 8th grade science teams. Both grade levels will use these Vertical Tower Gardens at different times throughout the school year and because of the ways the towers can be used, will be used throughout the entire school year. The 7th grade science teams will use them to support units of study covering: cells, photosynthesis, turgor pressure, tropisms, invasive species, genetics (performing cross pollination), adaptations, space travel and catastrophic events. The 8th grade science teams will use the Vertical Tower Gardens to support units of study covering: energy transformation, chemistry, physics (science of hydroponics), and human-induced environmental pressures. All EMS students will have the opportunity to work with these gardens. They will benefit by developing scientific reasoning as they create and explore answers to questions, conduct experiments, problem solve, collect and graph data, work collaboratively and provide scientific answers in their writing samples.</p>
Provide a brief summary for use on the Foundation's website and social media.	<p>EMS students are "Growing By Leaps and Bounds" as they explore and apply scientific reasoning while growing plants in Vertical Tower Gardens.</p>

Which Allen ISD goals/TEKS does this project support? Please provide 2 examples.	The 7th Grade Science TEKS: 7.13(A) investigate how organisms respond to external stimuli found in the environment such as phototropism and fight or flight The 8th Grade Science TEKS: 8.11(A) investigate how organisms and populations in an ecosystem depend on and may compete for biotic factors such as food and abiotic factors such as quantity of light, water, range of temperatures, or soil composition
What specific measurements will be used to evaluate the effectiveness of the project?	Teachers will evaluate the effectiveness of this project by tracking student growth in scientific reasoning. Specifically with the ability to create scientific questions, collect and graph data and scientific writing. Comparisons of historical team and district created formative assessments from previous years to the current year of the use of Vertical Tower Gardens.
What teaching methods will be used to implement this project?	Teachers will use one of three different teaching methods during any specific lesson which the teacher deems to be most appropriate: 5E (Engage, Explore, Explain, Elaborate, Evaluate), ADI (Argument Driven Inquiry) and CER (Claim, Evidence and Reasoning) which are scientific writing samples.
What is the project timeline and the date of implementation?	Students will begin using the Vertical Tower Gardens at the start of the school year 2022 and both 7th and 8th grade teams will continue to use this program throughout the school year.
Explain how this idea or project enhances/supports Allen ISD curriculum or existing systems.	The Vertical Tower Gardens supports the 5E model as outlined by the AISD Science Department.

### Project Budget

Total Grant Budget Requested:	2720.00
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### Project Budget Set Number 1

Item Type	General Supplies
List item to be purchased under item category:	2 Vertical Tower Gardens
Unit Cost	970
Quantity	2
Total cost of items in this category:	1940.00

### Project Budget Set Number 2

Item Type	General Supplies
List item to be purchased under item category:	Grow Lights
Unit Cost	300
Quantity	2
Total cost of items in this category:	600.00

### Project Budget Set Number 3

Item Type	General Supplies
List item to be purchased under item category:	Dollys
Unit Cost	90
Quantity	2
Total cost of items in this category:	180.00

**NGB**

First Name	Last Name	Email	NGB	Record	Letter
Leslie	Norris	leslie.norris@allenisd.org	RN234106	Name: Rec236477, Status: Submitted	Click on the 'Edit' button to replace this with your letter.

**NGB Custom Questions and Answers**

**Rec236477**

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:	Thank you for completing the application.

**Almost done!**

Not Available	
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