

Board of Directors

25 September 2018

Trindy LeForge
Chair

Shauna Thomas
Harelson Elementary

Julie Charters
Treasurer

Dear Shauna,

Rebecca Ford
Secretary

Bruce Baca

Jenny Carrillo

Leah Coleman

Fabian Cordova

Todd Jaeger
Superintendent,
Amphitheater Public School
District

Jon Lansa

Roseanne Lopez, Ed. D.

Jacob Parduhn

Erica Rokop

Russ Smith

Julie Turpin

Carol Tracy

Since 1983, our mission has been to promote academic excellence through the expansion of resources that enrich the education, development, and well-being of the students of the Amphitheater Public School District. The Amphi Foundation has, for most of its history, focused primarily on services that help make it possible for students to attend school and participate in activities and in recent years we have added Classroom Grants to support our students' teachers and their classrooms. Our Scholarships & Grants committee is proud to honor your grant request. Congratulations!

Funding for this grant was provided by the Nova Home Loans Arizona Bowl. Our hope with this partnership is that the Amphi Foundation will receive this gift again next year and beyond. You can help us by sharing photos, thank you notes and success stories about the impact of this funding so that we can share with our partners at the Arizona Bowl.

Please keep the following items in mind as you move forward with implementing your project and purchasing materials.

- If, for some reason, you do not proceed with this project, we ask that you return this money to the Amphi Foundation so that we can assist another classroom in need.
- Please be sure to follow district and school procedures for procurement.
- For any equipment or durable goods that have been purchased with this funding we ask that you consider gifting items to an Amphi colleague or teaching partner should you choose to leave the district.

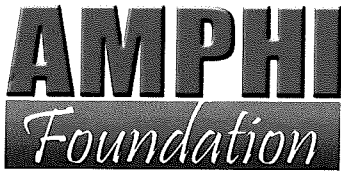
On behalf of the Amphi Foundation Grants & Scholarships Committee, thank you for all that you do!

Best Regards,

Leah Noreng

Leah Noreng
Executive Director

The Amphi Foundation is a 501(c)(3) organization. Please contact us directly for our Tax ID number.



yes-emailed

Amphi Foundation Grant Application

The mission of the Amphi Foundation is to promote academic excellence through the expansion of resources that enrich the education, development and well-being of the students in the Amphitheater Public School District.
We are a 501(c) (3) organization.

Project Title: **Harelson Elementary Project Lead the Way Launch: Vex Robotics**

Applicant(s): **Shauna Thomas, Lindsey Wong, Ashley Eggerman**

Project Director: **Shauna Thomas**

Project Site/School: **Harelson Elementary School; Grade 5**

Project Duration: Start Date: **September 2018** Ending Date: **Ongoing Project**

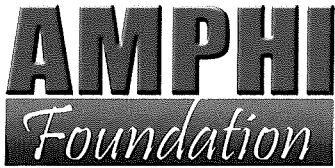
Impact/Target Population: # of Students: **90** # of Teachers: **3**

Ages/Grades: **5th Grade**

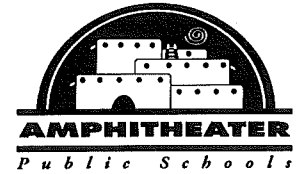
Budget Worksheet

Item Description	Cost Per Item	
VEXIQ Starter Kit (See Attached)	\$3849.99	
	\$	
	\$	
	\$	
	\$	
	\$	
	Estimate of Tax and Shipping	\$100.00
	TOTAL	\$3949.99
Total Expenses for entire project		\$3949.99
Funding from other sources.....		\$2949.99
Foundation grant request amount		\$1,000.00
*List Other Funding Sources	Harelson School Funds.	

This project is / is not eligible for extra-curricular tax credit funds. *(select one)*



Amphi Foundation Grant Proposal



Provide an objective and the purpose of the project

General purpose of the project:

The purpose of our project is to bring robots and coding to Harelson. We are interested in expanding computer science at our school.

Describe the project and how it will enhance the learning environment and promote academic excellence.
List the subject areas involved in the project.

Project Synopsis:



Our team would like to teach our students how to build and code robots using the VEX robotics kits and the Project Lead the Way curriculum. This is a great way to introduce students to computer science.

Provide the standards of measurement to be used to determine if goal(s) have been achieved and timeline for assessment of results. *If applicable, explain how the project will be sustained without committing district funds.*

Evaluation and Sustainability plan:

Students will use the VEX kits to first build simple machines and then combine the machines to make robots. We will use the kits to teach them to code the robots to introduce computer science. The program could also be expanded into a VEX robotics team that could compete with other schools in the city and state. Mrs. Thomas has been trained on PLTW and the other two teachers are interested in being trained as well. This program would be integrated into the 5th grade curriculum year after year. We would also like to use the robots with our buddy classes to introduce computer science in the primary grades. This program would really help us expand our STEAM curriculum and engage students in a positive way.

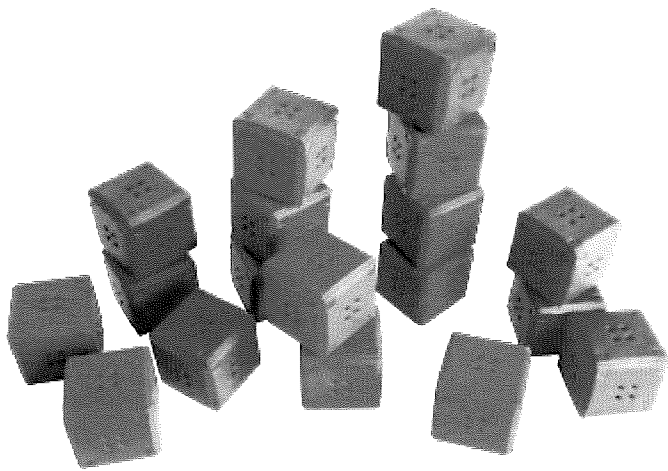
We plan to measure growth of our students using a pre and post survey. Our team will develop a survey that measures student's current knowledge and experience with computer science. We hope to show growth in the areas of knowledge of computer science, coding and interest level.

Principal/Department Authorization:	 <hr/> <i>Signature</i>			Jason Weaver	08/28/2018
Submitted by:	 <hr/> <i>Signature</i>			Shauna Thomas	08/28/2018
Phone & Email:	5200977-4691		Date:	08/28/2018	

By signing this document, I acknowledge that purchases must follow the district's required bidding/purchasing process and will adhere to USFR* regulations and any other reporting requirements of the funder. *All fixtures, equipment and instructional materials (or other improvements) received under this grant will become the property of the Amphitheater School District and not the applicant.*

*USFR = Uniform System of Financial Records required by ADE and the Auditor General's office for bookkeeping & reporting methods on expenditures.





Classroom Bundle

\$3,849.99

Start your very own STEM revolution, one classroom at a time.

Perfect for a group of 24 students (working in pairs), this discounted bundle contains everything needed to start building robots in your classroom, after school club, or summer STEM camp.

- (12) Super Kits – Over 10,000 pieces total!
- (2) 3-Inch Cube Kits

The Super Kit is the most complete introduction to VEX IQ; a set of 12 means that in just a few hours, your classroom could be crawling with 12 robots drivable by wireless control, running autonomously using advanced sensors, or a combination of both. Plus, when you use 3-Inch Cubes to set up a simple game, it fuels a competitive atmosphere and engages students right away.

For additional learning opportunities, students can also use SnapCAD and VEX IQ programming options (ROBOTC 4.0 or Modkit for VEX).

Add to cart

SKU: 228-4000 Category: Robot Starter Kits & Bundles

Description

Product Description

Kit Contents

Game Objects

(2)3-Inch Cube Kits

Structure

- (24)1×3 Beam
- (72)1×4 Beam
- (72)1×6 Beam
- (96)1×8 Beam
- (48)1×12 Beam
- (48)2×2 Beam
- (72)2×4 Beam
- (72)2×6 Beam
- (72)2×8 Beam
- (48)2×10 Beam
- (72)2×12 Beam
- (48)2×16 Beam
- (48)4×4 Plate
- (24)4×12 Plate
- (48)3×4 Tee Beam
- (48)2×3 Right Angle Beam
- (48)3×3 30 Degree Angle Beam
- (48)3×3 45 Degree Angle Beam
- (48)3×3 60 Degree Angle Beam

- (48)3x5 Right Angle Beam
- (72)4x4 Offset Right Angle Beam

Motors, Robot Control and Sensors

- (12)Robot Brain
- (12)VEX IQ Controller
- (24)900 MHz Radio
- (48)Smart Motor
- (12)Gyro Sensor
- (24)Bumper Switch
- (24)Touch LED
- (12)Distance Sensor
- (12)Color Sensor
- (24)Smart Cable Pack
- (12)USB Cable
- (12)Tether Cable

Connectors

- (2280) 1x1 Connector Pin
- (720)1x2 Connector Pin
- (240)2x2 Connector Pin
- (144)0.5x Standoff
- (144)1x Standoff
- (168)2x Standoff
- (72)4x Standoff
- (72)6x Standoff
- (144)Mini Standoff Connector
- (96)End Standoff Connector
- (216)Small Chassis Corner Connector
- (120)Large Chassis Corner Connector
- (120)2x Wide, 1x2 Corner Connector
- (144)1x Wide, 1x1 Offset Corner Connector
- (48)2x Wide, 2x1 Offset Corner Connector
- (48)2x Wide, 2x1 Offset Connector
- (48)2x Wide, 1x1 Offset Corner Connector
- (120)2x Wide, 2x2 Corner Connector
- (96)2x Wide, 1x2 Offset Corner Connector
- (48)2x2 Lock Plate
- (48)1x3 Center Lock Plate

Pulleys & Belts

- (24)10mm Pulley
- (24)20mm Pulley
- (24)30mm Pulley
- (24)40mm Pulley
- (24)30mm Rubber Belt
- (24)40mm Rubber Belt
- (24)50mm Rubber Belt
- (24)60mm Rubber Belt

Shafts

(72)1x1 Idler Pin
(72)0x2 Idler Pin
(24)4x Pitch Shaft
(48)6x Pitch Shaft
(24)8x Pitch Shaft
(24)2x Pitch Plastic Shaft
(24)3x Pitch Plastic Shaft
(24)4x Pitch Plastic Shaft
(24)5x Pitch Plastic Shaft
(24)2x Pitch Plastic Motor Shaft
(48)3x Pitch Plastic Motor Shaft
(24)4x Pitch Plastic Motor Shaft
(24)2x Pitch Plastic Capped Shaft
(48)3x Pitch Plastic Capped Shaft
(24)4x Pitch Plastic Capped Shaft
(24)5x Pitch Plastic Capped Shaft
(252)Washer
(300)0.5x Pitch Spacer
(48)Shaft Bushing
(360)Rubber Shaft Collar

Gears

(120)12 Tooth Gear
(120)36 Tooth Gear
(72)60 Tooth Gear
(24)36 Tooth Crown Gear
(48)Worm Bracket

Wheels

(48)Small Wheel Hub (44mm)
(24)100mm Travel Rubber Tire
(48)200mm Travel Rubber Tire

Power

(12)Robot Battery
(12)VEX IQ Controller Battery
(12)Robot Battery Charger
(12)Battery Charger Power Cord

Storage

(12)Storage Bin and Tray

SECURITY FEATURES INCLUDE TRUE WATERMARK PAPER, HEAT SENSITIVE ICON AND FOIL HOLOGRAM

**AMPHITHEATER PUBLIC SCHOOLS
FOUNDATION**
701 W WETMORE RD
TUCSON, AZ 85705

PIMA FEDERAL CREDIT UNION
P.O. BOX 50267
TUCSON, AZ 85703

1261
91-7479/3221
01
CHECK ARMOR

9/19/2018

PAY TO THE ORDER OF Harelson Elementary School

\$ **1,000.00

One Thousand and 00/100***** DOLLARS

Harelson Elementary School
826 W. Chapala
Tucson, AZ 85704

TWO SIGNATURES REQUIRED FOR OVER \$5,000



[Handwritten Signature]

AUTHORIZED SIGNATURE

MEMO
Thomas, VEX Robotics

⑆322174795⑆1090001331731⑆01261

1261

Date	Type	Reference	Original Amt.	Balance Due	Discount	Payment
9/19/2018	Bill	Harelson Elementary School	1,000.00	1,000.00		1,000.00
					Check Amount	1,000.00

590-53-100-1001-500-1920
AF-19-5T