



AMPHITHEATER PUBLIC SCHOOLS FOUNDATION, INC.

Hi Monika,
Jill has the check
so you're all set to
start spending! - Leah

Board of Directors

Bruce Baca
Chair

Trindy LeForge
Chair Elect

Jenny Carrillo
Treasurer

Rebecca Ford
Secretary

Julie Charters

Todd Jaeger
Superintendent,
Amphitheater Public School
District

Camille Knudsen

Jon Lansa

Roseanne Lopez, Ed. D.

Misti Nowak

Jacob Parduhn

Erica Rokop

Mary Snider

Julie Turpin

Carol Tracy

Leah Noreng
Executive Director

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

7 March 2018

Monika Arnold
Harelson Elementary

Dear Monika,

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 funding will be matched in 2018 and 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.

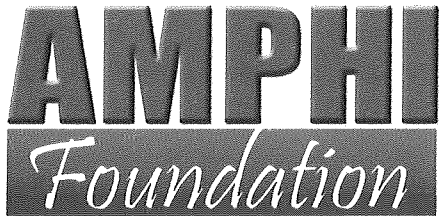
Please keep the following items in mind as you move forward with implementing your project and purchasing materials.

- 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



Classroom Grant Application
Please complete, sign, and return to amphifnd@amphi.com

Project Title:	Digital Microscopes in the Classroom		
Applicant(s):	Monika Arnold / Kari Richardson / Elizabeth Lowe		
Project Director:	Monika Arnold		
Telephone Numbers:	School 520-696-6044	Cell	520-204-7125
Project Site/School:	Harelson Elementary School		
Project Duration:	Start Date: 3/2018	Ending Date:	5/2025
Impact:	# of Students: 450	# of Teachers:	20
Ages/Grades:	Ages 5-12	Grades	K-6
		Total Cost:	\$435.78
		Less Funding from Other Sources*:	
		Total Grant Request:	\$ 435.78
*List Other Funding Sources	N/A		
Signature and Date:	_____		

TECHNOLOGY CERTIFICATION – required for grants requesting technology components

We **CAN / CANNOT** (circle one) support the technology and other infrastructure required for successful implementation outlined in this grant.

Technology Integration Specialist Signature: _____ Date: _____

PRINCIPAL APPROVAL:

After reviewing this application (principal please initial one),

_____ No additional resources (including maintenance and repairs) are necessary to fully implement the goals of this application

OR

_____ Additional resources are necessary in the approximate amount of \$ _____ (total, per year, etc.) and will be funded by other sources.

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

Applicant has shared this application with me and I **DO / DO NOT** (circle one) support this application.

Principal's Signature: _____ Date: _____

Grant Proposal

Project Title: Digital Microscopes in the Classroom

Summary: Brief, succinct overview of the project, including the estimated number of students directly impacted. Describe in lay terms. Do not assume the Committee knows the programs, technology or other topics you are discussing. Statement that could be used to explain project in a news release.

Through the use of a digital microscope in the classroom (individual, group work, and/or whole class), about 450 Harelson students will be given the opportunity to observe, question, hypothesize, test, analyze, and form conclusions in various subjects, from science to language arts. They will use critical thinking skills with collaborative efforts to present their learning within a 21st century framework, thus preparing them with the skills needed to succeed in future work, life, and citizenship.

Project Need, Purposes and Objectives: Describe how the project will enhance the learning environment and promote academic excellence. List the subject areas involved in the project and how the project will enhance the students' learning experience in these areas.

The use of a digital microscope within learning establishes a learner-centered classroom, whereby the student is in charge of their learning. The teacher is a facilitator, guiding the student to form their knowledge base in inquiry-based lessons. Students are engaged through the use of hands-on technology and motivated through student-choice driven activities.

Academic excellence will be strengthened by the exposure to research (scientific method), working collaboratively and in teams to solve problems (engineering design process), project-based learning, having open-ended activities and discussions enhancing academic vocabulary, and presenting students' learning to peers.

A variety of subjects will be enhanced by the use of a digital microscope. In science, students will observe, critically analyze and form conclusions, as well as compare and contrast various natural resources (soil), household items (plastics), organisms (insects), and materials (paper, cloth, etc.) Within math, students will be able to measure (includes this functionality) items, compare, and calculate measurements. Social studies artifacts (such as Native American baskets) can be compared and identified based on their characteristics. Lastly, writing across the curriculum will be successfully implemented through the note-taking, analysis, and presenting of data based on observations.

Project Activities: Description of the activities the award will facilitate and that will produce the objectives stated in the proposal.

Below are some examples that will be used in the classroom. After reading about Soil (English Language Arts basal story in Reading Street), students will research various forms of soil. They will take samples from various parts of campus, analyzing the structure, identifying structures found in soil, and complete and compare/contrast of the various soils.

In science with a math integration, we will observe and do a compare/contrast of insect eyes and antennae. The digital microscope has the ability to measure, so we will do that as well and make our conclusions.

For social studies, we will look at two different basket weaves from two Native American tribes (one in Tucson and one in Phoenix area). We will do a compare/contrast and have a discussion using vocabulary terms inherent to that subject.

Plan for Evaluation and Follow Up: The standards of measurement to be used to determine if goal(s) have been achieved and timeline for assessment of results.

In all three lessons, a pre- and post-assessment will be used to determine learning. Also, an observational checklist will be used which focuses on behaviors seen in team / collaborative work.

All three lessons will be completed by May 1st, as well as data analysis of the achievement of goals.

Budget Worksheet

Item Description	Cost Per Item	
Jiusion 40-1000x Magnification Endoscope (Amazon)	\$19.99 x 20	\$399.80
	\$	
	\$	
	\$	
	\$	
	\$	
	\$	
	\$	
9% Tax TOTAL	\$1.80 x 20	\$ 35.98
Total Expenses for entire project.....		\$435.78
Funding from other sources.....		\$ 0.00
Foundation grant request amount.....		\$435.78

Donations by Amphi Foundation

School	Teacher	Amount	Project
AHS	Wendy Ousley	\$ 757.50	Folklore and Mythology Seminar
AMS	Tamara Paulson-Midgley	\$ 974.03	Percussion Power
Coronado	Terry Duggan	\$ 1,000.00	Steam-azing Lab
Coronado		\$ 967.16	Classroom Games
Donaldson	Rachelle Ferris	\$ 991.00	Donaldson Maker Lab
Harelson	Becky Cozart	\$ 704.95	PE Program
Harelson	Monika Arnold	\$ 435.78	Digital Microscopes in the Classroom
Holaway	Capella Hauer	\$ 995.00	Summer Home Visit Kits
Innovation	Danielle Swartz	\$ 1,000.00	STEM leveled readers for K-1 Guided Reading Library
IRHS	Jenny Een	\$ 1,000.00	Freshman Focus: Ninth Grade Transition Restriction Digestion, Purification of DNA Fragments, and
IRHS	Mark Joseph Pincus	\$ 999.55	Cloning into Plasmids
Nash	Michelle Martin	\$ 959.75	Choo! Choo! Full STEAM Ahead!
Painted Sky	Mercy Pemberton	\$ 953.10	Edison Robots for Painted Sky Second Grade
Rio Vista	Hilary Wiechert	\$ 849.00	Fifth Grade Novel Studies
Wilson	Beverly Teran	\$ 771.60	Collaborative Mixed Media Mural
Wilson	Karen Maspero	\$ 1,000.00	Middle School Math Manipulatives