



The EDUCATIONAL
Foundation 
OF THE NORTH PENN SCHOOL DISTRICT

2018-2019
FUNDED GRANTS

A NOTE FROM THE TRUSTEES:

FOR THIS YEAR'S GRANT CYCLE, THE NORTH PENN EDUCATIONAL FOUNDATION AWARDED **34** GRANTS TOTALING **\$28,257.12**. THESE GRANTS BENEFIT STUDENTS AT EACH GRADE LEVEL.

GRANTS LIKE THE FOLLOWING NOT ONLY ENHANCE THE CURRICULUM BUT PROVIDE A HANDS-ON AND INNOVATIVE WAY FOR STUDENTS TO EMBRACE AND FULLY COMPREHEND THE LESSON. WHEN NPSD EDUCATORS APPLY FOR THESE GRANTS, SOME THINK OF HOW THIS EXPERIENCE WILL AFFECT THE STUDENT IN THE FUTURE. SCIENCE AND TECHNOLOGY GRANTS ALLOW STUDENTS TO UNDERSTAND THEORIES AT THE NEXT LEVEL OF THINKING. OTHER GRANTS ALLOW TEACHERS TO THINK ABOUT HOW THIS EXPERIENCE WILL BENEFIT STUDENTS SOCIALLY AND VOCATIONALLY. WE ARE SURE THAT WHEN YOU READ THROUGH THESE GRANT DESCRIPTIONS, YOU WILL SEE HOW THESE EXPERIENCES ALLOW OUR STUDENTS TO DEVELOP INTO BETTER STUDENTS AND CITIZENS.

WITHOUT YOU AND YOUR GENEROSITY, THE NPSD STUDENTS AND STAFF WOULD NOT HAVE ACCESS TO THESE AMAZING OPPORTUNITIES.

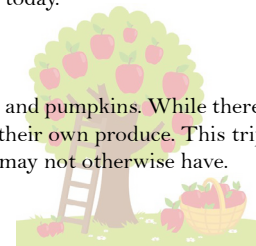
“Liberty for All” ★★☆☆

Oak Park and Hatfield Elementary Schools; *Andrea Swan, Andrea Bowers, Kristin Braun, Monisha Mukerji, Geretha Billetz, Sangeeta Dutta, Kylie Milosevic*
Part of the National Geographic Reach program challenges English Language Learners (ELLs) within NPSD’s English Language Development (ELD) Program to consider how their everyday actions enhance or detract from their own liberty and the liberty of others while living in a diverse world. To build off of this curriculum, approximately 50 ELLs will visit the National Liberty Museum in Philadelphia. This hands-on learning exhibit will provide the students with the opportunity to immerse themselves in history, learning about the historic people and rich experiences that shaped liberty as we know it today.

Apple Orchard Experience ★★☆☆

York Avenue Elementary School; *Tami Cantilina*

Approximately 13 ELLs will take a field trip to a local farm to learn about the process of managing a farm and produce, including apples and pumpkins. While there, the students have the opportunity to take a tour of the farm, go on a hayride, navigate through a corn maze, pet farm animals and pick their own produce. This trip will not only enhance the students’ knowledge of farming but it will also allow the students to have a classic Fall experience that they may not otherwise have.



Art Students Deserve to See World-Class Art ★

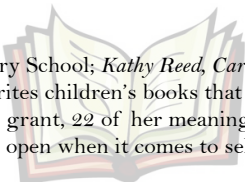
North Penn High School; *M. Lucas*

The innovation and creativity of others has the ability to inspire one’s own creative work. Viewing great art in person, especially, can stimulate the creation of an artist’s own great piece. Based on this ideal, art students from North Penn High School (NPHS) will visit the Philadelphia Museum of Art. Here, the students will be exposed to and have the opportunity to appreciate a world class collection of artwork. The objective of this trip is to allow students to seek their own source of inspiration among some of the best artwork available.

Book Power ★★

Inglewood Elementary School; *Kathy Reed, Carolyn Powers, Peggy Groller*

Author Julia Cook writes children’s books that have the power to teach kids the importance and use of different social skills, including problem solving and conflict resolution. With this grant, 22 of her meaningful books will be purchased for use as the base of discussion within the classroom about these skills. The goal is for students to feel more open when it comes to self expression, therefore creating a better understanding of emotional intelligence in themselves and others.



Butterfly and Moth Presentation by Rick Mikula ★★★

Bridle Path Elementary School; *Jennifer Oakes, Kate Huynh, Jake Hoffman*

From traveling the world, presenter Rick Mikula has gained a wealth of knowledge, pictures and samples of butterflies, therefore making him known as a world renowned expert on butterflies. He has proven to be a valuable and fun resource for young students to have during their butterflies’ science unit. The North Penn School District (NPSD) Education Foundation grant will be used to pay the fee for Rick’s presentation to Bridle Path second graders.

Collaborative Conceptualization of Concepts at the Please Touch Museum ★★☆☆

Hatfield and Oak Park Elementary Schools; *Geretha Billetz, Andrea Bowers, Sangeeta Datta, Kylie Milosevic, Monisha Mukerji, Andrea Swan, Kristin Braun*

This trip will bring together approximately 76 ELLs from first through third grade as they visit the Please Touch Museum in Philadelphia. The museum offers a variety of engaging and interactive real-world settings where children can conceptualize realistic ideas. In this type of environment, children can become doctors, chefs, construction workers and more as they dress up in costumes and experience a city built just for them.

Dodgeball Club ★

Pennbrook Middle School; *Matthew Olinik*

Each year, about 60 students at Pennbrook participate in a dodgeball tournament, run by the Dodgeball club, that over the years has become a beloved extra-curricular activity. Currently, the students borrow balls from the Physical Education (PE) Department to use for the games, but this grant will give the club its own equipment. It will fund the purchase of new dodgeballs for use by the club not only this year but in upcoming years as well.



Embryology ★★

Walton Farm and Knapp Elementary Schools; *Melissa Walsh*

Gifted Education students will see their science curriculum come to life as they will observe chick embryos going through their various stages of life. Throughout the embryos’ development, the students will be responsible for conducting background research by studying posters and online texts as well as caring for the eggs themselves. Once the chicks hatch, the students will then have the opportunity to care for the animals within their first few days of life. The knowledge gained throughout this experience will be shared by these students in their general education classrooms.

First Lego League 2018 Challenge ★

Montgomery Elementary School; *Sharon Wetzel*

Students at Montgomery Elementary have expressed interest in learning to program robots, yet there are none currently available in the school. This grant will give students the ability to apply Science, Technology, Engineering and Mathematics (STEM) concepts as they program EV3 robots - a type of technologically-based LEGO robot - to complete various challenges. The First Lego League program will provide “missions” that challenge students to apply imaginative solutions to a real-world problem. The program lends itself to promote core values that have a positive impact on student development. These core values include, but are not limited to: teamwork, learning together, friendly competition, discovery and sharing experiences with peers.

Flexible Furniture for Business Education ★

North Penn High School; *Linda Westerlund*

With this grant, the business labs and classrooms at NPHS will be upgraded to have a more open and free atmosphere, much like business workspaces outside of school. The rooms will be complete with dry-erase desks and tables, bean bag chairs and easily-movable furniture. This new set-up will encourage teamwork and collaboration all while allowing students creative freedom.

Flexible Seating ★★☆☆

Gwynedd Square Elementary School; *Stephanie Brecht*

Classroom lessons have evolved over the years to become more technologically based. Online programs including Google Classroom have become a regular aspect of students’ school life, which means the students do a lot of their work on their laptops while sitting still. This grant will be used to purchase Wobble Chairs for students so that they have the ability to be comfortable and move more freely within their school environment.

Fund-er the Sea: Continuing the Marine Program at North Penn High School ★

North Penn High School; *Shane Misuro* ★

There are currently 500 gallons of fresh and saltwater systems running at the high school. These systems were built, designed and maintained by marine science students as well as Marine and Botanical Society Club members. These tanks have proven to be an invaluable tool in bridging the gap between the theory and practice of marine biology, so this grant will be used to purchase the materials necessary to care for the systems and keep them running properly. Along with that, a portion of this grant will also go towards funding a number of these students' projects, one of which being a large-scale aquaponics system for use in botany and marine science courses.

How Stories Come to Be: A Writer's Workshop with Children's Author J.A. White ★

York Avenue Elementary School; *Meg Burke, Hannah Gendron, Christy Bryant, Jess Stephenson*

Storytelling can be much more than a standard five-paragraph essay. In collaboration with children's author J.A. White, classroom teachers and reading specialist, students will participate in two workshops, one in the fall and one in the spring, that will guide them in the development of their own unique stories. In the fall, White will host a workshop where he walks the students through his own creative process and then helps the students begin drafting their own books. Upon working on their stories throughout the year, White will return in the spring to see the students' progress and to help improve their narratives. Through this experience, the hope is that the students will understand that they all have a story to tell, and there's more than one way to do it.

It's Elemental! ★

North Penn High School; *John Collier*

As a supplement to his curriculum, NPHS Chemistry teacher John Collier does an "Element of the Day" where he shares fun and interesting facts about each of the 118 chemical elements. To enhance this segment, Collier passes around sealed samples of each element for the students to observe. This grant will be used to purchase a sample of each of the five Alkali metals, which is a group of elements that he does not yet have.

Jazz Soloist and Clinician ★

District-wide; *Peter Neu*

This grant will provide the opportunity for a guest clinician/soloist to perform and rehearse with over 200 students in grades five through 12 who are a part of the eight jazz ensembles within North Penn. The guest artist will instruct and interact with the students, giving them the experience of learning from a professional in the field. The event will conclude with a community concert showcasing North Penn's talented students coupled with the fantastic abilities of the soloist at North Penn Jazz Night on Monday, April 8, 2019.

K-Day ★

District-wide; *Nicholas Kraynak*

Each summer before the start of the school year, the NPSD Transportation Department hosts its annual K-Day event to acclimate new kindergarten students to riding the school bus. The program helps to ease the anxiety that comes along with first-time school bus riders. Participants can explore the bus, learn safety tips from district bus drivers, view safety videos and receive their bus schedules. With this grant, bus tags, stickers and activity books will be purchased for all 500 expected participants.

Learning Melody with Glockenspiels ★

Bridle Path Elementary School; *Michael Klenk*

Melody is a critical element and basis for developing a strong knowledge in music. By using glockenspiels in class, students are given a chance to develop their understanding of melody. This is achieved through ear training, learning intervals and strengthening music reading skills. Funds from this grant will be used to purchase three new glockenspiels that will prove to be fundamental in the students' learning of melody.

Martin Luther King Historical Performer ★

North Penn High School; *Dave Hall*

Through a partnership with the American Historical Theatre as well as the Pennsylvania Council for the Social Studies, students will have the opportunity to "meet" Reverend Dr. Martin Luther King. An actor portraying Dr. King will visit NPHS Social Studies Teacher Dr. Dave Hall's classroom, providing students the opportunity to ask Dr. King questions based on the his work and primary source footage. This will essentially bring part of students' history text to life and allow them to learn in a new, interactive way.

Mother Plant Grant ★

North Penn High School; *Daniel Krueger*

Members of North Penn's Marine and Botanical Society as well as botany students are always looking for rare and interesting plants to grow in North Penn's own greenhouse. Some of the plants that these students are interested in can be grown using seeds, but other plants, such as cacti, are not grown with seeds. These other plants are produced using a "mother plant," which is a larger plant that produces smaller, identical clones through asexual reproduction. The "mother plants" purchased using this grant will not only be used for growing in the greenhouse but they will also be used for demonstration within botany classes.

Nanotechnology and Engineering Research ★

North Penn High School; *Michael Boyer*

Within the NPHS Engineering Academy, the Engineering Design and Development (EDD) program allows students the opportunity to tackle an engineering challenge through active engagement with the six-step engineering process. To counteract some challenges within the global healthcare, environment, and energy sectors, students look to incorporate cutting-edge, nanotechnology research endeavors that may include resources that are not readily available within a traditional high school setting. The NPSD Educational Foundation grant will purchase necessary materials for students to complete their research and take their ideas and projects from concept to reality.

Nature Activity Boxes ★

District-wide Elementary Schools; *Marije Scott*

During the winter months, outdoor recess is unavailable for students and indoor options are limited. This grant will allow students in the Extended School Care Program to create four nature activity boxes that will rotate among the 13 elementary schools for use during indoor recess. In each box, there will be an assortment of games, books and crafts that will help teach the children about nature, forest animals and their effect on each other. This will give the students another activity to utilize during their time indoors.

North Penn Mural Arts Project ★

North Penn High School; *Jamie Flynn*

North Penn's art students will have the opportunity to apply their art skills on a larger scale by painting murals on the walls of the high school. Those students who are not art students will also benefit from this project as they will be constantly exposed to the art and the meanings behind it. The hope is that this mural will improve achievement in the classroom, climate among the students and culture throughout the building. Students will have a better sense of ownership of the building and be able to better identify themselves as North Penn students.

North Penn Alumni Night at the P2 Strings Gala ★

District-wide; *David Pimentel*

During a full school day, two remarkable guest strings artists will travel to multiple schools to instruct and interact with over 200 students in grades six through 12 who are part of the strings orchestra programs within North Penn. The esteemed guest artists will be two of North Penn's very own graduates. These guests will share their techniques, tips and experiences based on their work as professionals in the field as well as former students in the district. The event will culminate with an evening free concert, featuring the P2 Select String Ensemble, that will be open to the entire North Penn community. It will showcase some of the most talented string students and also the fantastic abilities of the guest artists. The evening concert will be Tuesday, November 27th, 2018.

North Penn Big Band Knight ★

District-wide; *David DiValentino*

Instead of watching YouTube and video clips, this project will bring in a live jazz band to play for and interact with North Penn jazz students. The Philly BIG Band, a professional jazz band based in Philadelphia, will host sectional clinics and a masterclass for students. Jazz bands from all three middle schools and two from the high school will be invited to participate in the clinics and masterclass, while the whole community will be invited to enjoy a free concert by the Philly BIG Band following the sessions. This project will expose the students to a different form of learning as well as provide them with a meaningful and realistic experience.

North Penn Talks: Spoken Word and Civil Rights ★★

North Penn High School; *Dave Hall, Sakita Tinsley*

In coordination with Black History Month, students will combine documentary photographs from the Civil Rights Movement to the present and integrate them with spoken word. Patchy Projects, a computer projection art company, will display the students' work throughout the high school using projection art. NPHS students will be able to see these projections throughout their school day, and younger students will have the opportunity to view this work during mini field trips.

Penndale Mural Enhancement Project ★

Penndale Middle School; *John Corson*

The walls of Penndale Middle School will be covered with a series of murals. These murals will be designed and executed by Penndale students using the elements of art and the principles of design taught through the art curriculum. The whole school will have the chance to pick the subject matter based on community and school events and ultimately participate in leaving a lasting piece of art at the school. Students majoring in art at Penndale along with art enthusiasts will continue to paint these murals in the hallways of the school, providing students with hands-on experience and the opportunity to bring curriculum to life.

Philadelphia Orchestra Trip ★

Penndale Middle School; *John Corson*

Part of the Pennsylvania State Music Standards is for students to listen to well-performed music. With this grant, approximately 75 orchestra students in grades four through six will travel to Philadelphia to hear a performance by the Philadelphia Orchestra. This will help prepare the students for their own concerts at school as they witness concert techniques such as sitting properly, posture, tuning instruments, respect for the conductor, sound, bowings, practice, attention and concentration. These musicians and the performance will act as proper role models for the students.

Precise Figural Stop Motion Animation ★

North Penn High School; *Michael Werner*

In this project, students will grow as animators by integrating several new animation and technological concepts into their own animation works. Students will create an advanced, three-dimensional figural movement through the synthesizing of stop motion and keyframe animation with the use of a camera, lighting tent and an armature kit. This new equipment will challenge the students to look closer into the details of figure animation and to render more accurately.

Robotics Club ★★

District-wide; *Frank Torrente*

Each year, the North Penn Robotics Club competes in For Inspiration in Science and Technology (FIRST) Robotics challenges. These challenges enhance the students' STEM skills as they get the opportunity to learn directly from industry engineers. Skills that the students learn include: matching metals, assembling robots, programming, electrical wiring and applying pneumatics. The funds from this grant will be used to purchase supplies that will be used for these challenges.

Screenagers Documentary Screening ★

North Penn High School; *Sam Feeney*

Electronic devices can be powerful tools for learning, as evidenced by NPSD's one-to-one Chromebook initiative; however, cell phone use in class is a major distraction to classroom teachers. With this grant, students will view the documentary Screenagers, which will further their education on proper technology usage within the classroom. Parents and community members will also have the opportunity to view the film in an evening screening.

Skanect - 3D Scanning Made Portable ★

North Penn High School; *Curt Reichwein*

Currently, there is a three-dimensional (3D) scanner at the high school that has repeatedly performed well and educated students as it has been utilized countless times for projects. The equipment stands seven feet tall with a turntable that is three feet in diameter, therefore making moving the equipment from the NPHS lab a challenge. With this grant, a portable Skanect Structure Sensor Scanner will be purchased for mobile use in place of the larger rig. The Structure Sensor will make it easier for students and faculty to share their work at other schools, STEM Fairs, Tech Fests and other locations.

Standing up for Learning ★★☆☆

Hatfield Elementary School; *Cindy Keating*

A younger elementary school student can most likely stand comfortably at a traditional desk because of the short height of both themselves and the desk. Older elementary school students tend to be taller, therefore making their needs unmet. These students do not have the option of standing to work because they risk injury and increased fatigue from bending over to work at a short desk. With the purchase of portable desks, older students will have the opportunity to comfortably stand while doing their work. The hope is that these desks will increase students' productivity and level of comfort within the classroom.

U-kan Make Music with Ukuleles! ★

Pennbrook Middle School; *Katie Campbell*

This grant will purchase a set of ukuleles for students at Pennbrook Middle School. By having a classroom set of ukuleles, the chorus, orchestra and band members, along with exploring music students, have access to a very easy beginning instrument. These students will have the opportunity to read music, analyze chord progressions within songs, play along to songs, increase their tonal accuracy of singing and create original songs. Once students learn a few simple chords, students have an entry point into creating their own song compositions, providing them the potential for lifelong music making as an adult.

Unified Bocce ★★

North Penn High School; *Kristen Panaski*

According to the Special Olympics, Unified Sports combine approximately equal numbers of Special Olympics Athletes and athletes without intellectual disabilities, referred to as Partners, on sports teams for training and competition. Bocce is an Italian game in which participants must roll a ball closest to the target ball across the court that is a part of Unified sports. Last year, North Penn's Bocce team performed exceptionally well, and members of the team as well as the coach hope to continue that success this year. This grant will be used to purchase equipment for the team as well as provide transportation to away matches.



A PARTNERSHIP WITH THE PAST FOR THE FUTURE.

IN 2012, THE NPSD EDUCATIONAL FOUNDATION, IN CONJUNCTION WITH THE NPSD ADMINISTRATION LAUNCHED THE NORTH PENN ALUMNI ASSOCIATION AS A COMMITTEE OF THE FOUNDATION. THE ASSOCIATION'S MISSION IS TO ENCOURAGE NETWORKING AND COMMUNICATION AMONG NPSD ALUMNI AND TO HELP MAINTAIN AND ENHANCE THE LEGACY OF NORTH PENN SCHOOLS FOR FUTURE GENERATIONS. WE HOPE TO SEE MORE GRADUATES JOIN US FOR NPSD AND FOUNDATION EVENTS, ATTEND REUNIONS AND STAY INFORMED ON THE HAPPENINGS OF THE DISTRICT.

WE SEE THAT NPHS GRADUATES DO GREAT THINGS, BUT WHAT IS THE MOST AMAZING IS THE PRIDE ONE TAKES IN SAYING THEY ARE A GRADUATE OF NORTH PENN HIGH SCHOOL. WHETHER A MEMBER OF THE CLASS OF 2018 OR SOMEONE WHO IS CELEBRATING THEIR 50TH REUNION, ALUMNI SEE NORTH PENN HIGH SCHOOL AS A PLACE THAT HELPED TO SHAPE THEM INTO WHOM THEY ARE TODAY.

FOR MORE INFORMATION ON THE NORTH PENN ALUMNI ASSOCIATION, VISIT WWW.NORTHPENNALUMNI.ORG.

★ ENGLISH LANGUAGE DEVELOPMENT

★ MUSIC/ARTS

★ SCIENCE

★ READING/WRITING/LANGUAGE

★ HISTORY/SOCIAL STUDIES

★ SPECIAL/GIFTED EDUCATION

★ OTHER