

Venture Grants
Penn Manor Education Foundation
February 2013

13-01 *Lego Mindstorm EV3*

Elementary Gifted

Lego Mindstorm EV3 robotics kit will help steer students towards the areas of math, science and technology. The students will be given open-ended problems that require them to examine, brainstorm, plan and execute to solve the problem using the kit.

13-02 *Nexus Tablets*

Penn Manor High School – Biology

The Nexus tablets will be used to remediate students that miss classes or labs. The tablets will also be used to do online dissections that provide resources to enhance student learning.

13-03 *Nexus Tablets*

Hambright Elementary – 3rd Grade, 5th Grade, Learning Support

The Nexus 7 tablets will be used to help increase student engagement in class. Students will also use the tablets to increase reading fluency, practice math skills and do research.

13-04 *Analytical Balance*

Penn Manor High School – Chemistry

An analytical balance will be purchased for use by chemistry students. The balance measures mass accurately up to four decimal places. Most colleges expect students to have prior knowledge of how to use this type of equipment.

13-05 *MimioVote32*

Manor Middle School – 8th Grade English

The MimioVote Assessment System will allow all students to participate in the classroom by registering their answers to questions confidentially. The MimioVote allows students to see real time data for each response they make to specific questions. It will also give the teacher quick and accurate feedback on class comprehension.

13-06 *Nexus Tablets*

Hambright Elementary – 1st Grade

A Nexus tablet will enable the teacher to use the projector more efficiently by allowing her to move around the room with the tablet acting as a computer.

13-07 *Kindles for the Classroom*

Martic Elementary – 6th Grade

The Kindles will be used for classroom use and reading groups. Books by specific authors will be downloaded as well as general fiction.

13-08 School Garden

Central Manor Elementary

The project is to develop a school garden/outdoor classroom. The outdoor classroom will teach the students about soil testing, plant growth, water cycle, friendly garden insects and pollinators. The students will grow different types of lettuce in the spring and squash in the fall.

13-09 Digital Physics Labs

Penn Manor High School – *Physics*

The digital physics lab will include force sensors, photogates, and motion detectors to more accurately demonstrate kinematics, projectile motion, Newton's Laws of Motion, etc. Software for graphing and interpreting real life data, video analysis tools, and cart tracks will give students an opportunity to experience physics concepts in every day situations.

13-10 Ropes Course

Penn Manor High School – *Twilight School*

The Twilight School students will go to the Millersville University ropes course to develop the skills of group cooperation and teamwork, communication and problem solving to successfully maneuver through the high ropes challenge.

13-11 Music Tech Update

Penn Manor High School – *Music*

Funds will be provided to purchase a Mimoview Document Camera. It will allow the teacher to project music scores with appropriate breath marks, dynamics, etc. for all the students to follow. Additionally, music technology equipment will be purchased so that students using Garageband will learn the basics of writing harmonies based on chord function and basic music theory.

13-12 Creative Writing Journals

Penn Manor High School - *English*

Creative writing journals along with the teacher's book and CD will be purchased for creative writing students.

13-13 MimioView Document Camera

Marticville Middle School – *Family & Consumer Science/Cultural Arts*

Funds will be provided to purchase a Mimoview Document Camera. It will allow the teachers to demonstrate intricate techniques to an entire class at one time. FCS demonstrations will include threading a sewing machine, making hand sewing knots, stitching, and slipstitching. The Tech demonstrations will include soldering electronic components and the Art demonstration will include use of clay tools, safety with carving printing blocks, gradation and shading.

13-14 National Academic Quiz Bowl Tournament

Penn Manor High School

The Quiz Bowl team will attend the 2013 NAQT finals in Atlanta, GA. This grant will pay the team's registration fee.

13-15 National High School Model UN

Penn Manor High School

Students will attend the National High School Model UN in New York City. This grant will pay the team's registration fee.

13-16 Steamroller

Central Manor Elementary – *Learning Support*

A Steamroller will be purchased to help students with ADHD, Autism, Sensory Processing Disorder. The student crawls/rolls between the set of rollers. The Steamroller provides deep pressure input and assist with motor planning and processing.

13-17 Magnetic Levitation Track

Manor Middle School – *Technology Education*

Students study magnetic levitation in the existing transportation technology unit. The track will enable students to test the vehicle they design and construct out of styrofoam.

13-18 Electricity Supplies

Pequea Elementary – *5th Grade*

Fifth grade science contains a unit on electricity. This project will provide battery and bulb holders. The students investigate the lighting of the bulb using the scientific process searching for different ways to light the bulb.

13-19 TIME for Kids

Central Manor Elementary – *5th Grade*

The magazine Time for Kids will be used as a weekly supplement to support the science and social studies curriculum. Each issues is filled with current events and topics that are relevant to their lives as they relate to the world.

Total funds awarded for Spring 2013 Venture Grants - \$25,591.03