



Pulaski Academy & Central School

Smart Schools Bond Investment Plan 2018 Phase II



Pulaski Academy's Allocation - \$1,209,470

The New York Bonds for School Technology Act, Proposal 3 was on the November 4, 2014 ballot in New York as a legislatively-referred bond question, where it was approved. The measure authorized the state comptroller to issue and sell bonds up to the amount of \$2 billion. The revenue received from the sale of such bonds are, according to the proposal, used for projects related to the following categories:

1) School Connectivity

- Install high-speed broadband or wireless internet

2) Classroom Technology

- Acquire learning technology equipment or facilities, including but not limited to interactive whiteboards, computer servers, and desktop, laptop, and tablet computers;

3) Pre-K Classrooms

- Construct, enhance, and modernize educational facilities to accommodate pre- kindergarten programs and to provide instructional space to replace classroom trailers; and/or

4) Replacement of Classroom Trailers

- Construct, enhance, and modernize educational facilities to accommodate pre- kindergarten programs and to provide instructional space to replace classroom trailers; and/or

5) High Tech Security Features

- Install high-tech security features in school buildings and on school campuses, including but not limited to video surveillance, emergency notification systems, and physical access controls.

Effective plans should:

- Include linkages between the district's long-term educational planning and technology investments.
- Provide learning opportunities beyond the classroom through the use of technology.
- Address the educational needs of all students, including students with disabilities, English language learners and those who have not succeeded in traditional classroom settings.

Critical Elements:

1. Demonstration of Need

- Pulaski Academy's proposed projects are consistent with our enrollment trends and will be used to create and maintain safe, secure, and highly technological instructional spaces. The proposed purchases would also increase access to technology resources for all of our students, many of whom are in low income families with limited access at home. Our Free and Reduced lunch eligibility rate of 51% as identified in our 2016—17 BEDS data further demonstrates the need for the school district to support our students by providing access to global resources that they are not able to gain elsewhere.

2. Adequate Technological Infrastructure

- Federal Communications Commission's standard of 100 Mbps internet bandwidth per 1,000 students currently exists for Pulaski Academy on both of our campus' where new devices will be deployed.

3. Professional Development

- Smart Schools Bond funds may not be used for professional development.
- Pulaski Academy has a Professional Development plan that outlines our goals to continue to support our staff with integrating technology in a variety of ways, including large group workshops conducted by Pulaski staff, CiTi BOCES, as well as CNYRIC staff. We will continue to encourage and support peer coaching among our talented faculty. Our district staff will continue to provide day to day individual training for teachers and staff on available tools as well as effective integration of technology into their curriculum.

4. Technical Support

- Smart Schools Bond funds may not be used for technical support.
- Pulaski Academy's Instructional Technology department will continue to provide support for all of our network / technology systems.

5. Sustainability

- Pulaski Academy's plan for sustainability is demonstrated by a comprehensive 4 year plan of all technology related expenditures that was developed in conjunction with the district Business Manager to correlate with our district technology plan and will ensure our equipment / software / subscriptions are adequately maintained and replaced within an appropriate lifecycle. The district utilizes all available fund sources, e-rate, local funds, BOCES aidable purchases, BOCES leases, grant applications, and capital project funds to maximize our funding to support our IT infrastructure and remain current by industry standards while providing world-class opportunities for our teachers and students. Each year, we re-evaluate our expenditures and extend our planning by another year.

Recommendations:

The funding available under the Smart Schools bond Act is a one-time allocation, not an annual amount. These funds will not expire, but once they are expended, no additional funds will be made available.

In order to build long term capacity, it is recommended that Pulaski utilize these bond funds over 5 years, which will enable us to continue to stay within our estimated budgetary expenditures for maintenance and sustainability.

Summary of Expenditures:

1. Install new building security components to work in conjunction with a newly planned IP phone system (purchased as a BOCES lease) for the district
2. Install replacement external security cameras
3. Purchase Chromebooks for student use in several grade levels

Purchase Plan:

13 External fixed cameras on the Elementary School	\$36,400
3 External PTZ cameras on the Elementary School	\$15,000
13 External fixed cameras on the MSHS School	\$36,400
3 External PTZ cameras on the MSHS School	\$15,000
Additional storage NAS for security camera footage – Dell Storage NX3230-14TB	\$10,951
400 - Dell 11.6" 3189 Chromebooks, 4gb Ram, 16gb SSD	\$131,200
Google Chrome Management licensing for 400 Chromebooks	\$9,980
GoGuardian Admin Teacher Bundle for 400 Chromebooks	\$4,472
16 Structure Series 30-bay black charging cart	\$9,109
400 – Egghead Classroom Headphones	\$2,993
Total	\$271,505

In 2016, Pulaski Academy and Central School District proposed expenditures under an investment plan titled "Phase I". This plan, which was approved by New York State in 2017, included expenditures totaling \$400,000, for equipment being installed during the 2016-17 and the 2017-18 school years.

After Phase I, this leaves \$809,470. It is planned that the equipment proposed in this Phase II plan totaling \$271,505 will be installed during the 2018-19 and the 2019-20 school years, leaving \$537,965 to be claimed in future phases for purchases beginning in the 2020-21 school year. This allows the district to stay on target with our original plan to use the Smart Schools Bond fund allocation over 5 years for purposes of sustainability.

School Safety and Security

Pulaski Academy will use approximately \$97,200 to increase the safety and security on our two campuses. The district has taken steps to improve building security by adding secure vestibules and enhanced door locking security in our buildings through a Capital Improvement Project. The safety of our students and staff is a priority; therefore, we plan to replace our phone system with a state of the art Voice Over IP (VOIP) system by initiating a purchase through our Regional Information Center in March 2018.

In conjunction with these added security notification enhancements, we will also replace aged external security cameras to help ensure that everyone inside our buildings is as safe as possible. The district is currently in the process of replacing an aged analog video camera system internally, and at the current rate will take an additional 5-7 years to complete the replacement schedule. A large percentage of our external analog security cameras are nonfunctioning, several are erratic, and all lack the video resolution needed in the event of a crisis. This project will replace all existing exterior cameras on both the Elementary and Middle-Senior high school buildings with high-resolution digital cameras. Each of these cameras will be integrated with our existing Genetec IP camera and door security server system, where we store high resolution video for incident investigation purposes. This project will also add additional storage to our Genetec server system to enable us to have the space to store the additional footage from this camera installation.

Classroom Learning Technology – Supporting Student Achievement through Devices

In alignment with our Instructional Technology Plan and Professional Development Plan, Pulaski Academy has worked hard to use technology tools and resources to transform our teaching and learning environments across the District. We would like to further build on that momentum by putting a Chromebook device, with GoGuardian licensing, in every student's hands from grades 2 – 12. GoGuardian is the product we would like to use for monitoring and administration. Teachers will be able to provide direct access to specific websites for kids to use as well as monitor what every child is doing from their teacher station. With GoGuardian, teachers can enable and disable devices at the touch of a button to ensure student attentiveness. We see this as an invaluable tool to keep our kids safe online and increase productivity of valuable teaching time. The multi-year roll out of devices with associated Professional Development is currently under development by the District Technology Committee. The District believes that technology can be a powerful vehicle for actively engaging all students in learning, and that active engagement is particularly important for students who are struggling.

Using technology tools and resources, teachers are able to personalize learning, differentiating both the content and the pedagogical approaches depending on the needs of students. For our students with disabilities, having access to these technology tools and associated resources would help level the playing field for these students to have the same learning opportunities as all other students. If the district were to have any students that are English Language Learners, the benefits for those students to have these tools to assist with learning a new language concurrently with learning new content would be greatly beneficial. Teachers can extend learning beyond the hours of the day and the confines of the classroom. They can also create authentic learning experiences and connect students to resources that will greatly enhance their learning. These resources can include content, study tools, collaborative tools, tools for assessment and connections to experts in the field, as well as to other students. Technology can help transform learning largely from consuming information to actively constructing knowledge.