

Depew Union Free School District Smart Schools Investment Plan February 2016



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INTRODUCTION

The Depew Union Free School District has a vision of enhancing current technology to prepare our students to meet 21st century skills. Each school building has classroom computers, computer labs, mobile laptop carts, tablet computers and multimedia presentation equipment. Academic assistance and support is strengthened with online resources and reference materials. Technology-based assessments are routinely given to target and address individual student needs. Curriculum based technology also augments content areas with applications, web resources, graphing calculators and science probes. The high and middle school elective programs include digital portfolios, pre-engineering curriculum, web design, money marketing, videography, robotics, core productivity applications and music composition. Teachers are utilizing Web 2.0 skills, such as blogs, podcasts, website, wikis, etc. Professional development is offered in-house with technology integrators to assist teachers to infuse Web 2.0 skills into instruction.

We strive to educate our students to be technology fluent preparing them for college and career, as is evident in our guiding philosophy of continuous development.

Approximately 1,996 students and staff members will benefit from the projects we are requesting in this plan. There are no non-public schools within our district.

The district's Smart Schools Team met regularly between February and November, 2015 to ascertain the district's needs. The team developed and prioritized the following key initiatives:

1. Learning Management System
2. Network Infrastructure and Wi-Fi Enhancement
3. Teacher Devices
4. Classroom Devices
5. Student Devices One to One
6. Professional Development
7. High Tech Security

For September 2015 the district implemented a learning management system, Schoology, and a cloud-based storage system, Google Apps for Education, in preparation for applying for Smart Schools funds.

STAKEHOLDERS

Mr. Jeffrey Addesa, HS Math Teacher and Technology Integration TOSA
Ms. Susan Arena, Business Administrator
Mr. Michael Bienko, Computer Specialist
Mrs. Marnie Belle-Isle, ES Grade 2 Teacher and Literacy TOSA
Miss Alyx Collins, Student
Mr. Joseph D'Amato, Principal, Depew Middle School
Mrs. Susan Frey, Assistant Superintendent for Curriculum, Instruction, Personnel and Director of Health & Physical Education
Mrs. Janet Gajewski, Director of Special Education
Miss Lynn Girdlestone, Assistant Principal, Cayuga Heights Elementary School
Mr. Lee Hoffman, Chief Information Officer
Miss Micaela Inglese, Student
Ms. Kelly Jeffords, HS Special Education Teacher, Leadership TOSA and Computer Resource Teacher
Mrs. Michelle Kudla, Principal, Cayuga Heights Elementary School
Mr. James LiPuma, Director of Pupil Personnel Services
Mr. James Lupini, Assistant Principal, Depew High School
Mrs. Salvatrice Maroney, HS Literacy Teacher and Grades 6-12 RTI Coordinator
Mr. Mitchell Martin, Community Representative for NYS Senator Pat Gallivan
Mr. David Matuszewski, Computer Technician and Parent
Mr. Lawrence Mietus, Founder of Speaking of Strategy and Parent
Mr. Adam Nagy, ES Grade 3 Teacher, Computer Resource Teacher and Parent
Ms. Giovanella Pelligra, Technology Teacher, Administrative Intern
Mrs. Alyssa Quintilone, ES Grade 5, Special Education Teacher and Chairperson
Dr. Jeffrey Rabey, Superintendent of Schools
Mrs. Deborah Schmitt, Coordinator of Advanced Studies and Four Year Articulations, SUNY Erie Community College
Mrs. Maria Sommerfeldt, District Technology Coordinator
Mrs. Carol Townsend, Principal, Depew High School

Academic Advisory Committee
CDEP Committee
District Technology Committee
Instructional Leadership Teams

GOALS

- Embrace the goals and objectives outlined in the Depew Union Free School District Educational Technology Plan
- Create a robust infrastructure with plenty of bandwidth to support demand coverage throughout the district
- Provide one to one deployment of mobile devices to all students
- Increase our students access to learning and technology during and after the school day
- Progress toward technology fluency
- Implement a pre-engineering curriculum into our middle school
- Provide teachers with mobile technology and presentation equipment to foster technology rich lessons
- Maintain parent and community communication and collaboration
- Improve safety with high-tech security systems across the district to include state of the art surveillance

SMART SCHOOLS BOND ACT ALLOCATION

School Connectivity	\$475,000
Connectivity Projects for Communities	\$0
Classroom Technology	\$1,016,820
Pre-Kindergarten Classrooms	\$0
Replace Transportable Classrooms	\$0
High-Tech Security Features	\$130,529
TOTAL ALLOCATION	\$1,622,349

SCHOOL CONNECTIVITY

OVERVIEW

Depew Union Free School District proposes to replace our current wireless network with a new controller and access points. This will take the district from centralized coverage to campus-wide, demand coverage. The district has consulted with the Western New York Regional Information Center and Erie 1 BOCES to evaluate the current coverage and develop a system to improve our coverage. The update to our Wi-Fi will support the use of mobile devices by all students.

A structured plan to improve wireless coverage, implement Google Apps for Education, Schoology (learning management system) and one to one computing will move the district toward the goal of providing students with access to technology on a regular basis and increase technology fluency. The district has used budgeted and grant funds to subscribe to academic online resources in support of curriculum goals and objectives, and to provide professional development to our faculty and staff. The move to one to one computing will deliver additional access to students during and after school hours. In addition, our increased digital connectivity and technology will enhance the opportunity for K-12 research projects, the implementation of the Common Core Learning Standards, particularly the standards in literacy/ELA with the use of various learning management systems, and the collaboration between teachers, students and parents. The opportunity for peer review and other types of collaboration with flipped classrooms will also be a great enhancement for our teaching and learning among staff and students. This 24/7 access to technology will greatly increase student engagement and extend learning opportunities truly beyond our school walls.

The district utilizes mobile laptop carts, which move between classrooms. We have determined that our current wireless does not meet the demands of our teachers and students. This is evident due to the numerous errors users receive when utilizing the network, even with sufficient wireless access points in their location. The mobile devices are saturating the wireless network, response times are slow and some users are delayed from accessing the network when the demand has reached full capacity. The district contracted with our local BOCES to perform a thorough wireless survey of our school buildings and campus. The survey located our coverage needs, gaps and proposed future needs in support of computer based testing. A project was developed to encompass the replacement of end of life equipment and management controller. In this project wireless access points supporting 802.11 n/ac standards will replace outdated APs. The new APs will be located in areas identified on the wireless survey.

The district currently meets the standard with a minimum of 1GB bandwidth within, between and coming to our schools.

COMMUNITY CONNECTIVITY (BROADBAND AND WIRELESS)

No proposal is submitted at this time.

CLASSROOM LEARNING TECHNOLOGY

OVERVIEW

The district is planning for a one to one device implementation for our schools. In our elementary school building, grades K – 2 will have iPad devices available in their home base classroom, which can be carried to specials and AIS classes. Grades 3 – 5 will have Chromebooks available in their home base classroom, which can be carried to specials and AIS classes. Devices will be returned to their home base at the end of the school day.

At our middle and high school buildings, grades 6-12 will have Chromebooks assigned to students which they will carry with them to all academic, specials and AIS classes. Students will be able to take the Chromebook home for use after school hours.

Both the iPad and Chromebook are compatible with our current Microsoft Active Directory network, Ethernet network and/or wireless network.

The district will be expanding our pre-engineering curriculum, Project Lead The Way (PLTW), into the middle school with their Gateway to Technology program. Our high school PLTW program has been in place for over ten years and has been very successful in preparing students for college level engineering. We believe our middle school students will benefit from the PLTW curriculum and will be better prepared for our high school PLTW curriculum. This curriculum will increase the number of students that graduate and move on to engineering in college and careers.

Our plan also includes upgrading to LED projectors for use with our interactive whiteboards and the addition of document cameras in classrooms. These costs are combined under Classroom Technology - Other Costs. Teachers will receive either an iPad or Chromebook. With the student and teacher equipment and professional development, we believe teachers will produce more technology rich lessons.

The district has implemented numerous online resources utilizing district and grant funds to supplement instruction:

- APEX Learning
- Google Apps for Education
- Schoolology
- Castle Learning
- Renaissance Learning (STAR 360, Accelerated Reader 360, STAR Custom)
- IXL Math
- Learning A-Z
- Think Through Math
- Scholastic
- EasyTech(Learning.com)

- BrainPop
- Lexia Reading
- Noodle Tools
- PebbleGo(Capstone)
- TumbleBook
- World Book
- Destiny Quest
- MyOn
- Info Base Learning
- Fitness Gram
- Zearn
- Fast ForWord

Our teachers have received professional development in the above resources and the integration of technology into our curriculum. Professional Development will continued to be offered to strengthen teachers' skills with the implementation of technology.

DIFFERENTIATED INSTRUCTION

Asynchronous learning is now a key part of our educational landscape. Teachers and students use technology resources at home and school to further research, studies and collaboration. Moving to one to one computing will facilitate this to a much greater extent.

The move to one to one computing will increase access to technology for all students. Our plan is to supplement the devices with applications like Dragon Speak, ZoomText, Fast ForWord, and Zearn, to best meet the needs of our students with disabilities. Additional assistive technology will be identified for students based on their individualized education plan.

COMMUNICATION

The district currently has school to parent communication in place through our student information system parent portal and district web sites. We plan to have teachers generate classroom assignments through Google Classrooms and Schoology. Students will be encouraged to utilize the Chromebook at home. Parents will be able to monitor student assignments by logging in to Schoology, Google Classroom and PowerSchool, to review student assignments, calendars, progress and grades. Many teacher assignments contain links to online resources for additional assistance and extended learning. Some of our online resources offer direct parental updates and reporting.

Through teacher leader grants the district has facilitated more regional collaboration. Technology tools have been a major component of our collaboration. The district participates

in BOCES programs that continue to foster these partnerships.

The proposed technology purchases will greatly enhance differentiated instruction at all grade levels. Many of our software programs use computer adaptive technology to identify appropriate grade levels or learning gaps to personalize instruction for each student. Our technology purchases will allow students to work more efficiently in center-based groups so the teacher can work in small groups with students on various learning tasks. Assignments will be able to be completed at home with teachers and students having the opportunity to access materials 24/7. This extension of learning outside the classroom is a key benefit of one to one computing. We believe students will read and write much more, a proven research-based strategy to increase academic achievement for ALL. One to one computing will also have huge benefits for our English Language Learners and Students with Disabilities. Students will be able to access text and other materials at their level. Pacing will also be adjusted for these learners. The possibilities to close learning gaps become very doable in a one to one technology rich environment. Data systems and dashboards will track individual student learning progress and adjustments will be made throughout the course of learning. In addition to the above modifications, the instructional technology provides many assistive technology options as well. For example, with these students we will provide audio books, read/speak/write software and touch screens to enlarge fonts, to provide greater access to learning resources.

EDUCATIONAL TECHNOLOGY PLAN – ACTION PLAN

The Smart Schools Investment Plan supports our action plan goals in the district’s Educational Technology Plan, reference pages 16 – 29.

Elementary School

- Goal 1: Regular use of technology
- Goal 2: Progress toward technology fluency
- Goal 3: Students will publish an original text
- Goal 4: Maintain parental and community communication and collaboration

Middle and High School

- Goal 1: Progress toward technology fluency
- Goal 2: Students will publish an original text
- Goal 3: Maintain parental and community communication and collaboration

EDUCATIONAL TECHNOLOGY PLAN – STRATEGY

The table below is an excerpt from the district’s Educational Technology Plan. Our Smart Schools Investment Plan supports many of these strategies. Three of the district’s strategies addressed in our plan include: planning for emerging needs and future technologies, contract for additional technology for our elementary school in support of Common Core Learning

Standards and computer based testing, and increased access to technology for all students. Also, with funds being allocated to technology for all students we can provide for additional assistive technology for individual students with IEPs (Instructional Educational Plans), thereby supporting an additional strategy.

STRATEGY	PLAN
<i>Plan for district technology, emerging needs, future technologies</i>	<i>The District has developed goals and a budget to ensure our technology plan continues to keep current with the 21st century skills our students will need to be successful in college and the workplace. The District Technology Committee meets monthly to review the state of technology, funding, emerging needs based on curriculum, and adoption of future technologies.</i>
<i>Contract for additional technology for Cayuga Heights Elementary School in support of Common Core, ELA and math assessments and 21st century technology skills</i>	<i>Continue to contract with Erie 1 BOCES for CSLO services, which include emerging technologies. Maintain subscriptions to web-based services in support of literacy, i.e., Learning A to Z.</i>
<i>Maintain and upgrade technology replacement</i>	<i>Hardware will be maintained and repaired regularly. A replacement plan is utilized to cycle outdated, irreparable and energy inefficient equipment.</i>
<i>Maintenance of Servers</i>	<i>Backups are performed daily on file server data. Updates and patches are performed weekly, monthly and as needed. Servers are replaced every three to five years. A maintenance contract is secured through Erie 1 BOCES to cover emergency repairs.</i>
<i>Upgrade of Networking Equipment</i>	<i>Data switches and wireless access points are replaced every five to ten years as a part of infrastructure within capital projects.</i>
<i>Technical support services</i>	<i>Identify training and tools for the technology support staff to maintain existing and new technologies. Implement strategies for the support staff to work more efficiently in the maintenance of technology, i.e., ghosting of hard drives, component replacement, implementation of desktop security and anti-virus software to prevent the infiltration of the desktop and network from viruses, malware, trojans and security threats. Maintain the use of a work order system to prioritize and track technology repairs and requests.</i>

<i>Increase Technical Support Services</i>	<i>The importance of technical support to the success of the District's technology program is recognized. Our technical support includes a technology coordinator 1.0, technology support specialist 1.6, one technology support technician 1.0, three computer resource advisors and contracted technology integration services .2. Additional maintenance and technical support services are contracted through Erie 1 BOCES – WNY Regional Information Center. It is evident that the district could benefit from additional technical support and technology integration services.</i>
<i>Contract for assistive technology for individual students</i>	<i>Maintain access for students in need of assistive technology and add to their IEP and provide assistive devices or software as per IEP.</i>
<i>Contract for curriculum-based technology to improve performance on State assessments</i>	<i>Identify curriculum-based applications and hardware that supports student understanding of common core learning standards and assessments.</i>
<i>Contract with Erie 1 BOCES for Broadband service to district</i>	<i>Maintain broadband services through Erie 1 BOCES in support of 21st century technology skills; ensuring that web-based systems and online services are available to teachers, students and management.</i>
<i>Increase access to technology for all students</i>	<i>Students will have availability to computer labs, academic assistance centers, and libraries during school hours. Maintain and add to our web-based instructional services giving students access from home. Maintain our teacher web sites with instructional content and resources for students to access from home. Make it easier for students to access web-based instructional services at school by adding links to browsers and on the district web site.</i>
<i>Increase access to technology for all teachers</i>	<i>Maintain our web-based professional development course catalogs and tracking systems.</i>
<i>Contract for CIPA approved internet filter</i>	<i>The district currently utilizes a CIPA approved internet filtering system. Regular updates are performed to maintain optimum filtering. Black and white lists are maintained for web sites that are not categorized properly.</i>

PROFESSIONAL DEVELOPMENT

The district has a .5 Technology Integrator and a .6 BOCES Technology Integrator who focus on the use of our online resources, technology integration and learning management systems with our teachers, administrators and staff. Specific attention will be placed on students utilizing iPads and Chromebooks regularly in the classroom. Training will also focus on accessibility at home (for parents) and all the resources available and strategies to implement in the classroom. This training will be held during the school day, after school and throughout the summer.

Training for parents will be offered through fact sheets, online help centers, at parent conferences and group sessions during district functions.

A sample staff professional development schedule is listed below:

2015-2016

Depew Union Free School District

9/14/2015

PROFESSIONAL DEVELOPMENT

Date	Grade/content area	Activity	Facilitator/Trainer	Time/Location
9/1/2015	All Staff	Superintendents Conference Day	Varies	Varies
9/8/2015	All Staff	Superintendents Conference Day	Varies	Varies
9/14/2015	Open Sign-up in MLP	Google Classroom	Rob Miller	8:00 - 11:00 or 11:30 - 2:30 HS room 207
9/21/2015	K-12 Support Staff	Google Training for Support Staff	Tim Johnson/Rob Miller	8:00 am - 11am 12:00- 3:00 pm HS room 207
9/28/2015	Open Sign-up in MLP	Schoology	Rob Miller	8:00 - 11:00 or 11:30 - 2:30 HS room 207
9/29/2015	Grade K-1 Math	Data Review and Assessment Modification	Andrea Tamarazio	8:30 am - 3:00 pm
9/30/2015	Grade 2-3 Math	Data Review and Assessment Modification	Andrea Tamarazio	8:30 am - 3:00 pm

10/1/2015	Grade 4-5 Math	Data Review and Assessment Modification	Andrea Tamarazio	8:30 am - 3:00 pm
10/2/2015	6-12 ELA	General Studies Secondary ELA	Sarah Brown Wassling	8:00 am - 3:00 pm at Erie 1 BOCES
10/5/2015	DHS	Data Team Meetings	Tim Johnson/Rob Miller	8:00 am - 2:30 pm HS room 124a
10/6/2015	Grade 4-5 ELA	Standard Deconstruction	Mary Jo Casilio	8:30 am - 3:00 pm
10/7/2015	Grade 2-3 ELA	Standard Deconstruction	Mary Jo Casilio	8:30 am - 3:00 pm
10/8/2015	Open Sign-up in MLP	Schoology	Rob Miller	8:00 - 11:00 or 11:30 - 2:30 HS room 207
10/8/2015	Grade K-1 ELA	Standard Deconstruction	Mary Jo Casilio	8:30 am - 3:00 pm
10/14/2015	Grades 5-8 Science	Vertical Curriculum Alignment	Jen Cordon	8:30 am - 2:30 pm MS library classroom
10/21/2015	6-12 ELA/Social Studies	Spiraled Research Skills Argument	Mary Jo Casilio, Traci Kanick	8:00 am - 2:30 pm HS room 124a
10/27/2015	K-8 Math	General Studies: Modeling with Fractions	Greg Tang	8:00 am - 3:00 pm at Erie 1 BOCES
10/29/2015	CHE	Data Team Meeting	Rob Miller	12:00-3:00
11/2/2015	Open Sign-up in MLP	Google Classroom	Rob Miller	8:30 - 11:30 or 12:00 - 3:00
11/5/2015	6-8 Math	Interim Assessment # 1 Review	Tricia Profic	Grade 6 - 8:00 am - 11:00, Grades 7-8 11:30 - 2:30
11/16/2015	DHS	Data Team Meetings	Tim Johnson/Rob Miller	8:00 am - 2:30 pm HS room 124a
11/19/2015	9-11 Math	Alg/Geo/Alg 2	Tricia Profic	8:00 am - 2:30 HS room 124a
11/26/2015	All Staff	Superintendents Conference Day	Varies	Varies
11/30/2015		Data Team Meetings	Rob Miller	11:30 - 2:30

	DMS			
12/2/2015	Grades K - 5	DCA Math	BOCES	8:00 am - 3:00 pm at Erie 1 BOCES
12/3/2015	6-12 Math	DCA Secondary Math	BOCES	8:00 am - 3:00 pm at Erie 1 BOCES
12/4/2015	Grade K-1 Math	Interim Assessment # 1 Review	Andrea Tamarazio	8:30 am - 3:00 pm
12/7/2015	Open Sign-up in MLP	Google Classroom	Rob Miller	8:30 - 11:30 or 12:00 - 3:00
12/9/2015	Grade 4-5 Math	Interim Assessment # 1 Review	Andrea Tamarazio	8:30 am - 3:00 pm
12/10/2015	Grade 2-3 Math	Interim Assessment # 1 Review	Andrea Tamarazio	8:30 am - 3:00 pm
12/16/2015	CHE	Data Team Meeting	Rob Miller	12:00-3:00
1/6/2016	Grade 4-5	STAR 360	Rob Miller/Tracy Bramwell	8:30 - 11:30 or 12:00 - 3:00
1/7/2016	Grade K-1 ELA	Social Studies/ELA Alignment	Jesse Karches	8:30 am - 3:00 pm
1/11/2016	Open Sign-up in MLP	Google Apps	Rob Miller	8:00 - 11:00 or 11:30 - 2:30 HS room 207
1/12/2016	Grade 2-3 ELA	Social Studies/ELA Alignment	Jesse Karches	8:30 am - 3:00 pm
1/14/2016	Grade 4-5 ELA	Social Studies/ELA Alignment	Jesse Karches	8:30 am - 3:00 pm
1/20/2016	Grade K-3	STAR 360	Rob Miller/Tracy Bramwell	Gr. K-1 - 8:30 - 11:30 Gr. 2-3 - 12:00 - 3:00
1/21/2016	Open Sign-up in MLP	Google Apps	Rob Miller	8:30 - 11:30 or 12:00 - 3:00
1/25/2016	Open Sign-up in MLP	Google Classroom	Rob Miller	8:30 - 11:30 or 12:00 - 3:00
1/27/2016	6-8 ELA/Math	STAR 360	Tracy Bramwell	8:00 - 11:00 - HS Library Classroom
1/27/2016	9-12 ELA/Math	STAR 360	Tracy Bramwell	11:30- 2:30 - HS Library Classroom

2/2/2016	6-12 Math	General Studies: Secondary Math	Dave Wilson from Buffalo State	Erie 1 BOCES 8:00 am - 3:00 pm
2/3/2016	Grade K-1 Math	Interim Assessment # 2 Review	Andrea Tamarazio	8:30 am - 3:00 pm
2/4/2016	Grade 2-3 Math	Interim Assessment # 2 Review	Andrea Tamarazio	8:30 am - 3:00 pm
2/5/2016	Grade 4-5 Math	Interim Assessment # 2 Review	Andrea Tamarazio	8:30 am - 3:00 pm
2/8/2016	CHE	Data Team Meeting	Rob Miller	12:00-3:00
2/9/2016	9-11 Math	Alg/Geo/Alg 2	Tricia Profic	8:00 am - 2:30 pm HS room 124a
2/22/2016	Open Sign-up in MLP	Google Apps	Rob Miller	8:30 - 11:30 or 12:00 - 3:00
2/23/2016	Grades K-5	DCA Math	BOCES	8:00 am - 3:00 pm at Erie 1 BOCES
2/25/2016	6-8 Math	Interim Assessment # 2 Review	Tricia Profic	8:00 am - 11:00 Grade 6 11:30 - 2:30 Grades 7-8
2/26/2016	6-12 Math	DCA Secondary Math	BOCES	8:00 am - 3:00 pm at Erie 1 BOCES
3/1/2016	Grade K-1 ELA	Social Studies/ELA Alignment	Jesse Karches	8:30 am - 3:00 pm
3/2/2016	Grade 2-3 ELA	Social Studies/ELA Alignment	Jesse Karches	8:30 am - 3:00 pm
3/3/2016	6-12 ELA/Social Studies	Spiraled CCLS Shifts	Mary Jo Casilio, Traci Kanick	8:00 am - 2:30 pm HS room 124a
3/7/2016	Grade 4-5 ELA	Social Studies/ELA Alignment	Jesse Karches	8:30 am - 3:00 pm
3/7/2016	DHS	Data Team Meetings	Tim Johnson/Rob Miller	8:00 am - 2:30 pm HS room 124a
3/14/2016	DMS	Data Team Meetings	Rob Miller	11:30 - 2:30
4/4/2016	Open Sign-up in MLP	Schoology	Rob Miller	8:00 - 11:00 or 11:30 - 2:30 HS room 207

4/21/2016	6-8 Math	Interim Assessment # 3 Review	Tricia Profic	Grade 6 - 8:00 am - 11:00, Grades 7-8 11:30 - 2:30
4/21/2016	Open Sign-up in MLP	Google Classroom	Rob Miller	8:30 - 11:30 or 12:00 - 3:00
4/25/2016	DMS	Data Team Meetings	Rob Miller	11:30 - 2:30
5/11/2016	K-12 Math	DCA Secondary Math	BOCES	8:00 am - 3:00 pm at Erie 1 BOCES
5/16/2016	CHE	Data Team Meeting	Rob Miller	12:00-3:00
5/23/2016	DHS	Data Team Meetings	Tim Johnson/Rob Miller	8:00 am - 11:00 am HS room 124a
6/6/2016	DMS	Data Team Meetings	Rob Miller	11:30 - 2:30

SUNY/CUNY COLLABORATION

The district collaborates with SUNY at Buffalo State College in their Professional Development School. One of our elementary teachers sits on the Board for elementary teacher preparation programs. Through this relationship the district shares and receives valuable information on innovative uses and best practices for educational technology.

SUSTAINABILITY

The district proposes to sustain the plans we are proposing above with funds through the district budget and grants. Even though we are substantially increasing the amount of hardware, through the use of management software we will be able to push out updates to mobile devices efficiently. We do not anticipate an increase to technical support costs after the first year of implementation. The district has already implemented LightSpeed Mobile Device Manager for our iPads and Google Device Management for our Chromebooks.

Currently we are covering technical support, repair and maintenance, internet, wireless and professional development costs through the district budget and plan to continue this practice. The low cost point of mobile devices makes it more affordable to replace devices rather than replace expensive desktop equipment. We see our equipment needs becoming more mobile over the next few years. District funds will be utilized for long-term replacement of mobile devices. Grants or a capital project may be necessary to replace network connectivity and high-tech security features at the end of their life.

The District has identified multiple funding sources to sustain our investment in technology.

- District's local budget
- NYS Department of Education categorical hardware and software funds
- Erie 1 BOCES installment purchase agreements
- Erie 1 BOCES Common Set of Learning Objectives services
- Erie 1 BOCES cooperative services
- Federal E-Rate funding
- NYS Title IID Grant
- NYS Title IIA Grant
- Competitive and non-competitive technology grants
- Capital improvement projects
- Other State or Federal grants as they become available

ACCEPTABLE USE POLICIES

The district will institute regulations on the use of mobile technology outside of school buildings. These regulations will supplement the current staff and student acceptable use policies and regulations. These plans have not yet been drafted, but we have evaluated the plans and programs of neighboring school districts that already have successful take home policies.

INTERNET SAFETY

LightSpeed Rocket is used to filter internet access, which keys in on site categories. It allows for multiple levels of filtering to tailor access to staff and students. Easy Tech is used to instruct our students on internet safety topics and technology features. Teachers routinely instruct on safety issues while students utilize technology in their lessons.

PRE-KINDERGARTEN CLASSROOMS

No proposal is submitted at this time.

REPLACE/MODERNIZE TRANSPORTABLE CLASSROOMS

No proposal is submitted at this time.

HIGH-TECH SECURITY FEATURES

OVERVIEW

The district plans to replace an aging surveillance system at the front doors of our three school buildings. Cameras and DVRs that are end of life or failing will be replaced with state of the art equipment. Most of our cameras are stationary and we will upgrade to cameras with pan and zoom functionality. A centralized server that connects and communicates with the multiple digital video recorders will be purchased. Larger security monitors will be placed in the front door and Main Office areas for improved surveillance and increased safety.

Each school building has a security officer stationed at the front door to control admittance into the building. Visitors are required to present identification and have a purpose to visit. Visitors are escorted to their destination by either a hall monitor or a staff member. Upgrades to our security features will improve safety and reduce gaps in surveillance.