

SSBA - Special Education Schools - Kappen11.1.17

SSIP Overview

Page Last Modified: 11/01/2017

1. Please enter the name of the person to contact regarding this submission.

Bernadette Kappen

1a. Please enter a phone number for follow up questions.

7185197000 x400

1b. Please enter their e-mail address for follow up contact.

bkappen@nyise.org

2. Please indicate below whether this is the first submission or an amended submission of an already approved Smart Schools Investment Plan.

First submission

3. Pursuant to the requirements of the Smart Schools funding, the planning process must include consultation with parents, teachers and students.

By checking the boxes below, you are certifying that you have engaged with those required stakeholders. Each box must be checked prior to submitting your Smart Schools Investment Plan.

- Parents
- Teachers
- Students

4. Certify that the following required steps have taken place by checking the boxes below: Each box must be checked prior to submitting your Smart Schools Investment Plan.

- The Smart Schools Investment Plan was posted on the school website for at least two weeks. The school included an address to which any written comments on the plan should be sent.
- The school board/trustees conducted a hearing that enabled stakeholders to respond to the Plan. This hearing may have occurred as part of a normal Board meeting, but adequate notice of the event must have been provided through the school website for at least two weeks prior to the meeting.
- The final proposed plan that has been submitted has been posted on the school's website and will remain for the duration of the related projects.

4a. Enter the webpage address where the final Smart Schools Investment Plan is posted. The Plan should remain posted for the life of the included projects.

[http://www.nyise.org/apps/pages/index.jsp?uREC\\_ID=763974&type=d&pREC\\_ID=1169221](http://www.nyise.org/apps/pages/index.jsp?uREC_ID=763974&type=d&pREC_ID=1169221)

5. Your school's Smart Schools funding appropriation is:

\$47,441

6. Enter the budget sub-allocations by category that you are submitting for approval at this time. If you are not budgeting Smart Schools funds for a category, please enter 0 (zero.) If the value entered is \$0, you will not be required to complete that survey question.

	Sub-Allocations
School Connectivity	0
Classroom Technology	47,441
Replacement of Transportable Classroom Units	0
High-Tech Security	0
<b>Totals:</b>	<b>47,441</b>

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School Connectivity

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- 1. Describe how you intend to use Smart Schools funds for high-speed broadband and/or wireless connectivity projects in school buildings.**

(No Response)

- 2. Describe how the school plans to use digital connectivity and technology to improve teaching and learning.**

(No Response)

- 3. Does your School Connectivity project require new construction or substantially altered space and result in capitalized cost in excess of \$100,000?**

(No Response)

- 4. If you are submitting an allocation for School Connectivity complete this table.**

**Note that the calculated Total at the bottom of the table must equal the Total allocation for this category that you entered in the SSIP Overview overall budget.**

	Sub-Allocation
Network/Access Costs	(No Response)
Outside Plant Costs	(No Response)
School Internal Connections and Components	(No Response)
Professional Services	(No Response)
Testing	(No Response)
Other Upfront Costs	(No Response)
Other Costs	(No Response)
<b>Totals:</b>	<b>0</b>

- 5. Please detail the type, quantity, per unit cost and total cost of the eligible items under each sub-category. This is especially important for any expenditures listed under the "Other" category. All expenditures must be eligible for tax-exempt financing to be reimbursed with Smart Schools funds. Sufficient detail must be provided so that we can verify this is the case. If you have any questions, please contact us directly through [smartschools@nysed.gov](mailto:smartschools@nysed.gov). Add rows under each sub-category for additional items, as needed.**

Select the allowable expenditure type. Repeat to add another item under each type.	Item to be purchased	Quantity	Cost per Item	Total Cost
(No Response)	(No Response)	(No Response)	(No Response)	(No Response)

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## Classroom Learning Technology Equipment (Devices)

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**1. Describe the devices you intend to purchase and their compatibility with existing or planned platforms or systems.****Brailenote Touch**

Taking notes independently, creating and sharing documents with peers and teachers, sending and receiving emails, using GPS, browsing the Internet, watching YouTube, using Dropbox and downloading apps are all part of 21st Century Literacy in the Classroom. All these tasks are done easily for students with sight. The Smart Schools proposal can assist students with visual impairments/blindness with the purchase of the Brailenote Touch. This device allows the student with a visual impairment the same access as their sighted peer. Earlier generations of this device have been used by our students for over 10 years. This latest generation builds a braille computer platform around a Google Android tablet. The Brailenote Touch assists young children with visual impairments as they learn Braille. The motor skills required to use this device are easier than the Perkins mechanical Braillewriter. The device allows the teacher visual access to what the student is working on.

**Refreshable Braille displays**

One of the requests in the Smart Schools proposal is for refreshable Braille displays. The Braille display would be hooked up to the iPad/Pod using Bluetooth. The student would be able to access the material in print on the Braille display. This would be helpful in increasing literacy and giving students access to material in both Braille and speech. Students often do better with both reading medium. If a student is using only speech this is not the same as reading the material. NYISE currently has refreshable Braille displays that are shared in the classroom and their current demand far exceeds our needs. The request in the Smart Schools proposal would significantly increase the number of displays available to students. Staff and students would be given instruction by one of the technology teachers in the use of the display as well as trouble shooting any problems. The Braille displays will be maintained by NYISE and repaired using our annual budget for technology.

The **Humanware Brailiant BI40** refreshable braille display is a full size display with 40 cells suitable for use with desktop computers, laptops and iPads. It comes with wired and wireless connectivity.

The second Braille display comes from The American Printing for the Blind (APH) is the **Orbit Reader 20** which is a smaller refreshable braille device which will be distributed for students to use with their iPads. We have extensive experience with a similar more expensive device but this is APH's latest offering. The device will help our students with reading, writing and proofreading of assignments produced by our students on their iPads.

The third refreshable braille display is **Freedom Scientific's Focus 40 Blue** locally distributed by Vis-ability. This device will be used with elementary school students to help them learn Braille. The device is needed for pairing with a classroom computer in our kindergarten and first grade class for using a software we recently beta tested and help refine with the developers. The engaging software is not commercially available and we work with the developers on their product.

**Makerbot Education Bundle**

Advances have been made in access information in print for students with visual impairments, however, access to pictures, graphs and other graphic display of information has been slow. In the classroom and on State tests students are asked to interpret a graphic. Students who are visually impaired or blind have difficulty with concepts that cannot be seen.

With the advances in 3D printing, having access to concepts that cannot be seen but must be learned through touch is helping students in the classroom. NYISE is requesting the purchase of MakerBot 3D printers to assist students in learning and improving their tactile graphics reading. In addition to concept development the 3D printers will be helpful in science and math activities.

**Zoomax Snow 7 HD Handheld Video Magnifier**

Students with low vision need access to print material that is enlarged. The Zoomax is portable and can be used to read on the go. The **Snow 7 HD** offers the largest viewing screen of all the handheld video magnifiers making it easy to read larger materials such as books, magazines and newspapers. We own a few similar devices and their availability far exceeds demand.

**Cosmo Braille Writer**

The **Cosmo electronic Braille** Writer from EBrailier is a significant innovations in braille technology. Cosmo is a quiet and flexible electronic braille writer and embosser. We own 2 of these devices and their usefulness is proven especially with young children. It will be placed in an elementary classroom for use as an introductory embosser and prepare the young students for a greater understanding of how Braille is produced. Cosmo is a Braille typewriter which is easy for children and adults to use, quiet, economical, easily maintained, and portable.

**MagniLink Voice II** is a reading machine that can scan a print document and convert it to speech. It can also read digital documents on SD cards. **MagniLink Zip FHD** with 13" monitor comes with a Full HD reading/distance camera and mirror mode. This device is suitable for persons with low vision to read books and textbooks. Our students are familiar with these types of devices. The school has been using similar devices for decades and the technology is always improving and the advent of high definition digital camera has been a boom for the visually impaired and blind.

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**2. Describe how the proposed technology purchases will improve teaching and learning inside or outside of the classroom.**

Currently serving 150 blind and visually impaired students, our Schermerhorn program focuses on providing the educational and life skills our students need to function independently and reach their fullest potential as proactive members of society. Technology is an important part of the curriculum as it levels the playing field for students who are visually impaired or blind. Access to material in print whenever an individual wants is available to all students without visual impairments. This is not the case for students with visual impairments. Today technology bridges the gap but the cost of assistive technology devices is often high. The Smart Schools Bond Act funding will help NYISE acquire devices to give the students the support they need to succeed.

NYISE has a robust network throughout the campus. The buildings have hard wiring to the Internet as well as wireless connections. We are set up with a guest network and a network for individuals to bring their own devices. All the classrooms provide student access to computers as well as two computer classrooms where students come to learn keyboarding, software programs as well as how to use specialized devices for children who are blind/visually impaired. The library also provides computer access.

Three years ago, NYISE implemented an iPad project to provide each student with an iPad or iPod to allow for increased access to material. The iOS platform provides access with voice over and zooms for immediate access to email files, book and other documents. The classroom uses Google Classroom for the students to interact with the teacher in sending and receiving documents. The iPad use has been helpful in gaining access to material in print.

The items requested in this grant will provide our students with enhanced abilities to compete academically, prepare them for college and the workplace and support our past efforts to bring the best technologies available for students with visual impairment and blindness.

**3. To ensure the sustainability of technology purchases made with Smart Schools funds, schools must have a plan to maintain and support technology purchases reimbursed with Smart Schools funds. This sustainability plan should support recurring costs of use that are ineligible for Smart Schools funding such as device maintenance, technical support, Internet and wireless fees, maintenance of hotspots, staff professional development, building maintenance and the replacement of incidental items.**

By checking this box, you certify that the school has a sustainability plan as described above.

**4. Schools must ensure that devices purchased with Smart Schools funds will be distributed, prepared for use, maintained and supported appropriately. Schools must maintain detailed device inventories in accordance with generally accepted accounting principles.**

By checking this box, you certify that the school has a distribution and inventory management plan and system in place.

**5. Schools must contact the SUNY/CUNY teacher preparation program that supplies the largest number of the its new teachers to request advice on innovative uses and best practices at the intersection of pedagogy and educational technology.**

By checking this box, you certify that you have contacted the SUNY/CUNY teacher preparation program that supplies the largest number of your new teachers to request advice on these issues.

**5a. Please enter the name of the SUNY or CUNY Institution that you contacted.**

Hunter College

**5b. Enter the primary Institution phone number.**

212-772-4668

**5c. Enter the name of the contact person with whom you consulted and/or will be collaborating with on innovative uses of technology and best practices.**

Rosanne K. Silberman

**6. If you are submitting an allocation for Classroom Educational Technology, complete this table.**

**Note that the calculated Total at the bottom of the table must equal the Total allocation for this category that you entered in the SSIP Overview overall budget.**

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	Sub-Allocation
Interactive Whiteboards	0
Computer Servers	0
Desktop Computers	0
Laptop Computers	0
Tablet Computers	16,485
Other Costs	30,956
<b>Totals:</b>	<b>47,441</b>

7. **Please detail the type, quantity, per unit cost and total cost of the eligible items under each sub-category. This is especially important for any expenditures listed under the "Other" category. All expenditures must be capital bond eligible to be reimbursed with Smart Schools funds. If you have any questions, please contact us directly through [smartschools@nysed.gov](mailto:smartschools@nysed.gov).**

**Add rows under each sub-category for additional items, as needed.**

Select the allowable expenditure type. Repeat to add another item under each type.	Item to be purchased	Quantity	Cost per Item	Total Cost
Tablet Computers	BrailleNote Touch 32 braille notetaker / tablet	3	5,495	16,485
Other Costs	Brailliant BI 40 braille display	2	2,756	5,512
Other Costs	MakerBot Replicator+ Desktop 3D Printers	2	2,499	4,998
Other Costs	additional Smart Extruder+ for Replicator+ Desktop	2	199	398
Other Costs	Ten-Packs of PLA Filament in Large Spools	3	389	1,167
Other Costs	MakerBot in the Classroom Resource Book	4	50	200
Other Costs	Orbit Reader 20	16	450	7,200
Other Costs	Freedom Scientific Focus 40 blue	1	2,656	2,656
Other Costs	Zoomax Snow 7HD Handheld Video Magnifier	3	930	2,790
Other Costs	Cosmo Braille Writer	1	2,495	2,495
Other Costs	Magnilink Voice II with battery	1	1,625	1,625
Other Costs	Magnilink Zip FHD 13	1	1,915	1,915

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Replace/Modernize Transportable Classrooms

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1. Describe the school's plan to construct, enhance or modernize education facilities to provide high-quality instructional space by replacing transportable classrooms.

(No Response)

2. Does your Classroom Trailer project require new construction or substantially altered space and result in capitalized cost in excess of \$100,000?

(No Response)

3. If you have made an allocation for Replace Transportable Classrooms, complete this table. Note that the calculated Total at the bottom of the table must equal the Total allocation for this category that you entered in the SSIP Overview overall budget.

	Sub-Allocation
Construct New Instructional Space	(No Response)
Enhance/Modernize Existing Instructional Space	(No Response)
Other Costs	(No Response)
<b>Totals:</b>	<b>0</b>

4. Please detail the type, quantity, per unit cost and total cost of the eligible items under each sub-category. This is especially important for any expenditures listed under the "Other" category. All expenditures must be capital bond eligible to be reimbursed with Smart Schools funds. If you have any questions, please contact us directly through [smartschools@nysed.gov](mailto:smartschools@nysed.gov). Add rows under each sub-category for additional items, as needed.

Select the allowable expenditure type. Repeat to add another item under each type.	Item to be purchased	Quantity	Cost per Item	Total Cost
(No Response)	(No Response)	(No Response)	(No Response)	(No Response)

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High-Tech Security Features

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1. Describe how you intend to use Smart Schools funds to install high-tech security features in school buildings and on school campuses.

(No Response)

2. Does your High-Tech Security project require new construction or substantially altered space and result in capitalized cost in excess of \$100,000?

(No Response)

3. If you have made an allocation for High-Tech Security Features, complete this table. Note that the calculated Total at the bottom of the table must equal the Total allocation for this category that you entered in the SSIP Overview overall budget.

	Sub-Allocation
Electronic Security System	0
Entry Control System	0
Approved Door Hardening Project	0
Other Costs	0
<b>Totals:</b>	<b>0</b>

4. Please detail the type, quantity, per unit cost and total cost of the eligible items under each sub-category. This is especially important for any expenditures listed under the "Other" category. All expenditures must be capital bond eligible to be reimbursed with Smart Schools funds. If you have any questions, please contact us directly through [smartschools@nysed.gov](mailto:smartschools@nysed.gov).

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