Smart Schools Investment Plan - 2016-17 Version (Original) - 2802290001

SSIP Overview

Institution ID
800000049270

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

Cynthia Seniuk

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

(516) 292-3694

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

cseniuk@nmerrick.org

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

First submission

3. All New York State public school districts are required to complete and submit a District Instructional Technology Plan survey to the New York State Education Department in compliance with Section 753 of the Education Law and per Part 100.12 of the Commissioner's Regulations. Districts that include investments in high-speed broadband or wireless connectivity and/or learning technology equipment or facilities as part of their Smart Schools Investment Plan must have a submitted and approved Instructional Technology Plan survey on file with the New York State Education Department.
By checking this box, you certify that the school district has an approved District Instructional Technology Plan survey on file with the New York State Education Department.

☑ District Educational Technology Plan Submitted to SED and Approved

4. Pursuant to the requirements of the Smart Schools Bond Act, the planning process must include consultation with parents, teachers, students, community members, other stakeholders and any nonpublic schools located in the district.
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
☑ Community members

4a. If your district contains non-public schools, have you provided a timely opportunity for consultation with these stakeholders?

☑ Yes
☐ No
☐ N/A

5. 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 district developed and the school board approved a preliminary Smart Schools Investment Plan.
☑ The preliminary plan was posted on the district website for at least 30 days. The district included an address to which any written comments on the plan should be sent.
☑ The school board conducted a hearing that enabled stakeholders to respond to the preliminary plan. This hearing may have occured as part of a normal Board meeting, but adequate notice of the event must have been provided through local media and the district website for at least two weeks prior to the meeting.
☑ The district prepared a final plan for school board approval and such plan has been approved by the school board.
☑ The final proposed plan that has been submitted has been posted on the district's website.

5a. Please upload the proposed Smart Schools Investment Plan (SSIP) that was posted on the district's website, along with any supporting materials. Note that this should be different than your recently submitted Educational Technology Survey. The Final SSIP, as approved by the School Board, should also be posted on the website and remain there during the course of the projects contained therein.

smart schools investment plan north merrick .pdf

5b. 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.

https://www.nmerrickschools.org/domain/24

6. Please enter an estimate of the total number of students and staff that will benefit from this Smart Schools Investment Plan based on the cumulative projects submitted to date.

1,500

7. An LEA/School District may partner with one or more other LEA/School Districts to form a consortium to pool Smart Schools Bond Act funds for a project that meets all other Smart School Bond Act requirements. Each school district participating in the consortium will need to file an approved Smart Schools Investment Plan for the project and submit a signed Memorandum of Understanding that sets forth the details of the consortium including the roles of each respective district.

☐ The district plans to participate in a consortium to partner with other school district(s) to implement a Smart Schools project.

8. Please enter the name and 6-digit SED Code for each LEA/School District participating in the Consortium.

Partner LEA/District	SED BEDS Code
(No Response)	(No Response)

9. Please upload a signed Memorandum of Understanding with all of the participating Consortium partners.

(No Response)

10. Your district's Smart Schools Bond Act Allocation is:

$661,037

11. Enter the budget sub-allocations by category that you are submitting for approval at this time. If you are not budgeting SSBA 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	531,441
Connectivity Projects for Communities	0
Classroom Technology	129,596
Pre-Kindergarten Classrooms	0
Replace Transportable Classrooms	0
High-Tech Security Features	0
Totals:	**661,037**

1. In order for students and faculty to receive the maximum benefit from the technology made available under the Smart Schools Bond Act, their school buildings must possess sufficient connectivity infrastructure to ensure that devices can be used during the school day. Smart Schools Investment Plans must demonstrate that:

- **sufficient infrastructure that meets the Federal Communications Commission's 100 Mbps per 1,000 students standard currently exists in the buildings where new devices will be deployed, or**
- **is a planned use of a portion of Smart Schools Bond Act funds, or**
- **is under development through another funding source.**

Smart Schools Bond Act funds used for technology infrastructure or classroom technology investments must increase the number of school buildings that meet or exceed the minimum speed standard of 100 Mbps per 1,000 students and staff within 12 months. This standard may be met on either a contracted 24/7 firm service or a "burstable" capability. If the standard is met under the burstable criteria, it must be:

1. Specifically codified in a service contract with a provider, and

2. Guaranteed to be available to all students and devices as needed, particularly during periods of high demand, such as computer-based testing (CBT) periods.

Please describe how your district already meets or is planning to meet this standard within 12 months of plan submission.

The District will Increase its Boetie to meet the required standards when it is necessary. This will be completed with 12 months.

1a. If a district believes that it will be impossible to meet this standard within 12 months, it may apply for a waiver of this requirement, as described on the Smart Schools website. The waiver must be filed and approved by SED prior to submitting this survey.

☐ By checking this box, you are certifying that the school district has an approved waiver of this requirement on file with the New York State Education Department.

2. Connectivity Speed Calculator (Required)

	Number of Students	Multiply by 100 Kbps	Divide by 1000 to Convert to Required Speed in Mb	Current Speed in Mb	Expected Speed to be Attained Within 12 Months	Expected Date When Required Speed Will be Met
Calculated Speed	1,203	120,300	120.3	100	150	6/1/2020

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

We are proposing an expansion of the current wireless system. The district will need to have network cabling installed for all additional wireless access points. Along with the cabling and access points, an investment in an upgraded wireless controller will be required as well. The current wireless controller does not support the latest and upcoming wireless standards and is limited in terms of how many access points can be provisioned on it. The upgraded controller will be able to support up to 512 access points.

In 2014 there was a project to upgrade the network switches in the district. Nassau BOCES incorporated extra POE ports that would be required for the districts security initiative. POE (power over Ethernet) ports provide power to devices such as cameras, access points, and phones, as well as data communication. The security project ended up requiring more POE ports than originally planned. Due to this increase in POE (Power over Ethernet) demand, there is currently a need to add additional POE switches.

We are proposing that the district invest in additional POE Cisco switches that will accommodate the additional device counts. This will help to ensure that the additional needs of the security project and wireless are met.

We are also proposing that fiber be run between all existing network closets. This will enable the district to handle up to 10 Gigabit speeds in the future. Additionally, this will allow for redundancy utilizing multiple pairs of fiber between those closets. Also, we are proposing that the additional Category 6 network cabling be run to classrooms for wireless access points. As a result, we will have to add additional network closets in Camp and Old Mill. These closets will need to be placed to meet standards for cabling that currently are not being followed.

4. Describe the linkage between the district's District Instructional Technology Plan and the proposed projects. (There should be a link between your response to this question and your response to Question 1 in Part E. Curriculum and Instruction "What are the district's plans to use digital connectivity and technology to improve teaching and learning?)

District is moving to accommodate a 1:1 computing initiative. There is an average of 3 computers in each classroom; however the majority of these computers are over 5 years old. There is also currently one Smart Board per classroom and several Smart Board in special areas; however majority of the Smart Boards are also over 5 years old.
The District recognizes the importance of ongoing and sustained professional development for staff and students. The District is committed to allocating an annual expenditure of $25,000-$50,000 per school year to provide professional development to ensure that staff can employ the technology purchase through the Smart School Bond. This will ensure all our teachers, school administrators and staff will be empowered to best utilize these new technologies for instructional purposes.
This wireless upgrade will enable the students, teachers, school administrators and staff to use the new technology in teh mst efficient manor as possible.This will also enable the District to have sufficient bandwidth to meet user the one on one computing initiative.

5. If the district wishes to have students and staff access the Internet from wireless devices within the school building, or in close proximity to it, it must first ensure that it has a robust Wi-Fi network in place that has sufficient bandwidth to meet user demand.

Please describe how you have quantified this demand and how you plan to meet this demand.

The current plan is to install wireless access points in all classrooms and general areas. This will enable the District to have sufficient bandwidth to meet user the one on one computing initiative.

6. As indicated on Page 5 of the guidance, the Office of Facilities Planning will have to conduct a preliminary review of all capital projects, including connectivity projects.
Please indicate on a separate row each project number given to you by the Office of Facilities Planning.

Project Number
28-02-29-02-7-999-001

7. Certain high-tech security and connectivity infrastructure projects may be eligible for an expedited review process as determined by the Office of Facilities Planning.

Was your project deemed eligible for streamlined review?

No

8. Include the name and license number of the architect or engineer of record.

Name	License Number
John Grillo	27360

9. 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	92,741
Outside Plant Costs	0
School Internal Connections and Components	348,510
Professional Services	

	Sub-Allocation
	90,190
Testing	0
Other Upfront Costs	0
Other Costs	(No Response)
Totals:	**531,441**

10. 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 through the SSBA. 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.
NOTE: Wireless Access Points should be included in this category, not under Classroom Educational Technology, except those that will be loaned/purchased for nonpublic schools.
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
Connections/Components	Supply 12 Strand OM4 Armored Plenum Fiber Part # 012T88-33190-A3	800	4	2,898
Connections/Components	Supply 1U Rack Mount Fiber Enclosure Part # CCH-01U	6	214	1,285
Connections/Components	Supply 2 Conduit Body Cover With Screws Part # TPZ576S	2	2	4
Connections/Components	Supply 2 EMT Conduit Part # CONDUIT2-IN-EMT	10	3	31
Connections/Components	Supply 2 EMT Connector S/S Part # TPZ636S	8	1	8
Connections/Components	Supply 2 Insulated Bushing Part # TPZ1666	3	1	3
Connections/Components	Supply 2 LB Conduit Body Part # ARL9315LB	2	12	25
Connections/Components	Supply 2400 Sereis Metalli Raceway Base & Cover 5' Lengths Part # V2400BC	12	12	145
Connections/Components	Supply 2400 Sereis Metalli Raceway Entrance/End Fitting Part # V24010A	4	7	28
Connections/Components	Supply 2400 Sereis Metalli Raceway Entrance/End Fitting Part # V24010A	5	6	28
Connections/Components	Supply 2U Horizontal Wire Manager Part # HM24C	6	71	428
Connections/Components	Supply 3 Conduit Body Cover Part # TPZ577S	2	6	12

School Connectivity

Select the allowable expenditure type. Repeat to add another item under each type.	Item to be purchased	Quantity	Cost per Item	Total Cost
Connections/Components	Supply 3 EMT Conduit Part # CONDUIT3-IN-EMT	40	7	261
Connections/Components	Supply 3 EMT Connector S/S Part # TPZ638S	4	5	20
Connections/Components	Supply 3 EMT Coupler S/S Part # TPZ648S	4	4	14
Connections/Components	Supply 3 Insulated Bushing Part # TPZ838	4	1	3
Connections/Components	Supply 3 LB Conduit Body Part # TPZLB8	2	47	93
Connections/Components	*Supply 3/4 Conduit Body Cover With Screws Part # TPZ572S	1	3	3
Connections/Components	*Supply 3/4 EMT 1 Hole Strap Part # TPZ512	1	4	4
Connections/Components	Supply 3/4 EMT Conduit Part # CONDUIT 3/4-EMT	150	1	128
Connections/Components	(15) Supply 3/4 EMT Connector S/S Part # TPZ632S	1	4	4
Connections/Components	(15) Supply 3/4 EMT Coupler S/S Part # TPZ642S	1	4	4
Connections/Components	(15) Supply 3/4 Insulated Bushing Part # TPZ832	1	1	1
Connections/Components	Supply 3/4 LB Conduit Body Part # ARL9311LB	5	3	17
Connections/Components	Supply 3/8 Double Expansion Shield Anchor Part # ALL1DES38	50	1	66
Connections/Components	(100) Supply 3/8 X 1 1/4 Fender Washer Part # ALL2FDW38114	1	7	7
Connections/Components	(50) Supply 3/8-16 X 3 Hex Tap Bolt Part # ALL2HTB38300	1	16	16
Connections/Components	Supply 3/8-16 X 4 Round Combo Head Toggle Bolt/Wing Part # ALL1RTB0384	25	1	21
Connections/Components	(6 Supply 4 Square Blank Cover Part # MUL11201	1	2	2
Connections/Components	Supply 48 Port Modular Patch Panel Part # HPJ48	6	69	414
Connections/Components	Supply 4SQ Box Drawn 1 1/2	6	1	5
Connections/Components	Supply 500/700 Offset Connector Part # V5786	76	10	741

School Connectivity

Select the allowable expenditure type. Repeat to add another item under each type.	Item to be purchased	Quantity	Cost per Item	Total Cost
Connections/Components	Supply 6000 Series Metallic Combination Flat Elbow Part # V6011TX	2	38	77
Connections/Components	Supply 6000 Series Metallic Combination Internal/External Elbow Part # V6017TX	2	37	75
Connections/Components	Supply 6000 Series Metallic Raceway Base Part # V6000B	50	12	578
Connections/Components	Supply 6000 Series Metallic Raceway Cover Part # V6000CE	50	4	192
Connections/Components	Supply Bucket Of Drag/Pull Line Part # SOUPL6500	3	39	117
Connections/Components	Supply Cat6a Jack Insert (25 Pack) Part # HJ6AP25	6	205	1,228
Connections/Components	Supply Cat6a Plenum Cable Part # 30303-8-BLY	31	528	16,363
Connections/Components	Supply Cat6a RJ45 Modular Plug Part # HUBSP6A	105	11	1,129
Connections/Components	Supply Fan Kit Part # MAPCWR-FKIT	1	128	128
Connections/Components	Supply Intumescent Sealant Part # STISSS100	14	18	257
Connections/Components	Supply LC OM4 Splice Cassette Part # CCH-CS12-E4-P00QE	6	430	2,578
Connections/Components	Supply Plastic Screw & Anchor Kit Part # GRE84012	9	11	99
Connections/Components	(700) Supply Plastic Tie Wraps Bag Of 100 Part # PANS12-40-C	1	81	81
Connections/Components	Supply Right Angle Wall Mount Bracket For WAP Part # 1008-00-WH	25	63	1,581
Connections/Components	Supply Right Angled Wall Mount Bracket For WAP Part # 1011-00WH	66	74	4,858
Connections/Components	Supply Roll Of Electrical Tape Part # TYTET660	18	1	20
Connections/Components	Supply Single Gang Surface Mount Box Part # V5744	76	17	1,299
Connections/Components	Supply Steel Channel 1 1/2	10	2	18
Connections/Components	Supply Steel Strap Part # T-BC105-3	4	2	8
Connections/Components	Supply Wall Mount Cabinet Part # MAPCWR-18-32PD	1	696	696
Connections/Components	Supply Wall Mount Cbinet Part #	1	716	716

School Connectivity

Select the allowable expenditure type. Repeat to add another item under each type.	Item to be purchased	Quantity	Cost per Item	Total Cost
	HUBRE4X			
Connections/Components	Supply Wall Mount WAP Enclosure Paart # 1016-C	2	168	336
Connections/Components	Supply Wall Mount WAP Enclosure Part # 1016-C	6	168	1,007
Connections/Components	Labor To Install Fan Kit For Wall Mount Cabinet Qty 1	1	36	36
Connections/Components	Labor To Install LC OM4 Splice Cassette Qty 2	2	55	109
Connections/Components	Labor To Install 1U Rack Mount Fiber Panel Qty 2	3	73	218
Connections/Components	Labor To Install 2U Horizontal Wire Manager Qty 2	3	73	218
Connections/Components	Labor To Install 48 Port Modular Patch Panel Qty 2	3	73	218
Connections/Components	Labor To Install Fire Stop Caulk Qty 4	7	78	544
Connections/Components	Labor To Install Protective Wall Mount WAP Enclosure Qt 2	5	73	363
Connections/Components	Labor To Install Protective Wall Mount WAP Enclosure Qty 2	3	61	181
Connections/Components	Labor To Perform 3 Interior Wall Penetration Qty 1	3	61	181
Connections/Components	Labor To Install 2400 Series Metallic Raceway Qty 20'	3	73	218
Connections/Components	Labor To Install Plywood Back Board For Cabinet Qty 1	3	73	218
Connections/Components	Labor To Install Plywood Backboard Qty 1	3	73	218
Connections/Components	Labor To Install 3' Cat6a Copper Patch Cord WAP Side Only Qty 39	4	73	290
Connections/Components	Labor To Install 500/700 Series Metallic Offset Connector Qty 35	4	73	290
Connections/Components	Labor To Install 500/700 Series Metallic Offset Connector Qty 41	4	73	290
Connections/Components	Labor To Install Wall Mount Cabinet Qty 1	10	73	725
Connections/Components	Labor To Perform 3 Interior Wall Penetration Qty 2	5	73	363
Connections/Components	Labor To Install 2400 Series Metaliic Raceway Qty 40'	6	73	435

School Connectivity

Select the allowable expenditure type. Repeat to add another item under each type.	Item to be purchased	Quantity	Cost per Item	Total Cost
Connections/Components	Labor To Install Single Gang Surface Mount Box For Wall Mount WAP Qty 35	6	73	435
Connections/Components	Labor To Install Single Gang Surface Mount Box For Wall Mount WAP Qty 41	7	73	508
Connections/Components	Labor To Perform 2 Interior Wall Penetration Qty 3	8	73	580
Connections/Components	Labor To Install 3/4 EMT Conduit Qty 60	9	73	653
Connections/Components	Labor To Perform 3 Floor Core Qty 2	9	73	653
Connections/Components	Labor To Perform 2 Interior Wall Penetration Qty 4	10	73	725
Connections/Components	Labor To Set Up Break Down	30	73	2,175
Connections/Components	Labor To Install 12 Strand OM4 Armored Plenum Fiber Qty 250'	26	73	1,885
Connections/Components	Labor To Install 12 Strand OM4 Armored Plenum Fiber Qty 300'	15	73	1,088
Connections/Components	Labor To Install 3 EMT Conduit Qty 40	16	73	1,160
Connections/Components	Labor To Fusion Splice Fiber Strand Qty 24	54	73	3,915
Connections/Components	Labor To Create/Provide Run List/Spread Sheet With Cabling Info	60	73	4,350
Connections/Components	Labor To Install 6000 Series Metallic Raceway Qty 60'	25	73	1,813
Connections/Components	Labor To Install Beam Clamp Qty 150	25	73	1,813
Connections/Components	Labor To Install Bridle Ring Qty 150	25	73	1,813
Connections/Components	Labor To Install L Bracket For WAP Qty 25	30	73	2,175
Connections/Components	Labor To Install Right Angled Bracket For WAP Qt 27	32	73	2,320
Connections/Components	Labor To Perform 3/4 Interior Wall Penetration Qty 60	72	73	5,220
Professional Services	Labor To Project Manage	40	73	2,900
Connections/Components	Labor To Install Customer Provided WAP Qty 35	42	73	3,045
Connections/Components	Labor To Perform 3/4 Interior Wall Penetration Qty 75	45	73	3,263
Connections/Components	Labor To Install Right Angled Wall	46	73	3,335

School Connectivity

Select the allowable expenditure type. Repeat to add another item under each type.	Item to be purchased	Quantity	Cost per Item	Total Cost
	mount Bracket For WAP Qt 39			
Connections/Components	Labor To Install Customer Provided WAP Qty 39	47	73	3,408
Connections/Components	Labor To Install Customer Provided WAP Qty 41	49	73	3,553
Professional Services	Labor To Project Manage	110	73	7,975
Connections/Components	Labor To Install/Terminate/Test Single Cat6A For WAP Qty 35	119	73	8,628
Connections/Components	Labor To Install/Terminate/Test Single Cat6A For WAP Qty 39	133	73	9,643
Connections/Components	Labor To Install/Terminate/Test Single Cat6A For WAP Qty 41	140	73	10,150
Connections/Components	(100) Supply 3/4 Insulated Bushing Part # TPZ832 Total	1	2	2
Connections/Components	(100) Supply 6 Port Faceplate Part # IFP16EI Total	1	1	1
Connections/Components	(15) Supply 3/4 Insulated Bushing Part # TPZ832 Total	1	1	1
Connections/Components	(15) Supply 2 Insulated Bushing Part # TPZ836 Total	1	1	1
Connections/Components	(20) Supply 4 Square Blank Cover Part # MUL11201 Total	1	7	7
Connections/Components	(50) Supply 3/4 Conduit Body Cover With Screws Part # TPZ572S Total	1	2	2
Connections/Components	(50) Supply 2 EMT Coupler S/S Part # TPZ646S Total	1	3	3
Connections/Components	(50) Supply 6 Port Faceplate Part # IFP16EI Total	1	3	3
Connections/Components	(100) Supply 3/4 Conduit Body Cover With Screws Part # TPZ572S Total	1	3	3
Connections/Components	(100 Supply 2 Steel Kindorf Strap Part # T-BC 106-2 Total	1	3	3
Connections/Components	(300) Supply 3/4 Conduit Body Cover With Screws Part # TPZ572S Total	1	3	3
Connections/Components	(500) Supply 3/4 EMT Connector S/S Part # TPZ632S Total	1	3	3
Connections/Components	(1,000) Supply 3/4 EMT Coupler S/S Part # TPZ642S Total	1	7	7
Connections/Components	(15) Supply 3/4 EMT Connector S/S Part # TPZ632S Total	1	4	4

School Connectivity

Select the allowable expenditure type. Repeat to add another item under each type.	Item to be purchased	Quantity	Cost per Item	Total Cost
Connections/Components	Supply 3/4 EMT 1 Hole Strap Part # TPZ512 Total	15	1	12
Connections/Components	(15) Supply Blank Insert (10Pack) Part # SFBE10 Total	1	4	4
Connections/Components	(20) Supply 3 Port Faceplate Part # IFP13EI Total	1	9	9
Connections/Components	(20) Supply 3/4 EMT Coupler S/S Part # TPZ642S Total	1	5	5
Connections/Components	Supply 4SQ Box Drawn 1 1/2	15	1	9
Connections/Components	(50) Supply 4SQ Box Drawn 1 1/2 Deep 3/4 KO Part # RACO191 Total	1	5	5
Connections/Components	(50) Supply 4SQ Box Drawn 1 1/2	1	5	5
Connections/Components	Supply 2 EMT Connector S/S Part # TPZ636S Total	6	1	5
Connections/Components	Supply 2400 Series Metallic Coupler Part # 2401 Total	6	3	17
Connections/Components	Supply 4 Port Faceplate Part # IFP14EI Total	4	1	6
Connections/Components	Supply 3/8 X 1 1/4 Fender Washer Part # ALL2FDW38114 Total	6	2	14
Connections/Components	(300) Supply 3 Port Faceplate Part # IFP13EI Total	1	7	7
Connections/Components	(300) Supply Single Gang Blank Plate Part # NP13I Total	1	8	8
Connections/Components	(800) Supply 3/8 X 1 1/2 Fender Washer Part # ALL2FDW38112 Total	1	20	20
Connections/Components	Supply 4 Steel Kindorf Strap Part # T-BC 105-4 Total	10	1	10
Connections/Components	Supply Roll Of Black Electricl Tape Part # TYTET660 Total	10	3	33
Connections/Components	Supply 3/4 LB Conduit Body Part # ARL9311LB Total	10	1	13
Connections/Components	Supply 4 EMT Coupler S/S Part # TPZ650S Total	5	3	14
Connections/Components	Supply 2 Port Faceplate Part # IFP12EI Total	4	3	14
Connections/Components	Supply 4 Insulated Bushing Part # TPZ840 Total	5	3	14
Connections/Components	Supply 4 Conduit Body Cover Part # TPZ579S Total	10	1	15

School Connectivity

Select the allowable expenditure type. Repeat to add another item under each type.	Item to be purchased	Quantity	Cost per Item	Total Cost
Connections/Components	(57) Supply 2 Port Faceplate Part # IFP12EI Total	1	16	16
Connections/Components	(80) Supply 3/4 LB Conduit Body Part # ARL9311LB Total	32	1	32
Connections/Components	Supply 3/8-16 X 3 Hex Tap Bolt Part # ALL2HTB38300 Total	6	5	32
Connections/Components	Supply 4 Insulated Bushing Part # TPZ1670 Total	6	3	16
Connections/Components	Supply Butt Splice Kit Part # HLBSK Total	6	3	18
Connections/Components	(200) Supply Tee Junction Splice Kit Part # HLTK Total	1	18	18
Connections/Components	(150) Supply Vertical Wall Mount Bracket Part # HLVWBK Total	1	21	21
Connections/Components	(150) Supply 4 Insulated Bushing Part # TPZ1670 Total	1	24	24
Connections/Components	Supply Ladder To Relay Rack Mounting Kit Part # HLMPK19 Total	14	2	30
Connections/Components	Supply Plastic Screw & Anchor Kit Part # GRE84012 Total	10	3	31
Connections/Components	Supply 2400 Series Metallic 90 Degree Flat Elbow Part # V2411FO Total	10	3	32
Connections/Components	Supply 2400 Series Metallic 90 Degree Flat Elbow Part # V2411M Total	10	6	64
Connections/Components	Supply Plastic Tie Wraps Bag Of 100 Part # PANS12-40-C Total	4	9	35
Connections/Components	Supply 700 Series Metallic 90 Degree Flat Elbow Part # V711 Total	50	1	70
Connections/Components	Supply Bucket Of Drag/Pull Line Part # SOUPL6500 Total	50	2	117
Connections/Components	Supply 18 X 8 X 18 Pull Box Part # MIL18188-SC1 Total	2	21	41
Connections/Components	Supply 700 Series Metallic External Elbow Part # V718 Total	1	83	83
Connections/Components	Supply Single Gang Blank Plate Part # NP13I Total	3	15	44
Connections/Components	Supply 700 Series Metallic Internal Elbow Part # V717 Total	3	32	96
Connections/Components	Supply 2 Port Faceplate Part # IFP12EI Total	2	26	51

School Connectivity

Select the allowable expenditure type. Repeat to add another item under each type.	Item to be purchased	Quantity	Cost per Item	Total Cost
Connections/Components	Supply 2400 Series Metallic Entrance/End Fitting Part # V2410A Total	4	42	167
Connections/Components	Supply Plastic Tie Wraps Bag Of 100 Part # PANS12-40-C Total	11	5	58
Connections/Components	Supply 1 Port Faceplate Part # IFP11EI Total	43	1	61
Connections/Components	Supply Single Gang Blank Plate Part # NP13I Total	36	2	62
Connections/Components	Supply 3/8 Double Expansion Shield Anchor Part # ALL1DES38 Total	54	2	132
Connections/Components	Supply 2 EMT Conduit Part # CONDUIT2-IN-EMT Total	5	14	68
Connections/Components	Supply 1 Port Faceplate Part # IFP11EI Total	10	7	69
Connections/Components	Supply Single Gang Extra Deep Device Box Part # V2444 Total	48	4	210
Connections/Components	Supply 2400 Series Metallic Internal Elbow Part # V2417FO Total	2	111	221
Connections/Components	Supply 1 Port Faceplate Part # IFP11EI Total	20	4	77
Connections/Components	Supply 2400 Series Metallic External Elbow Part # V2418FO Total	20	13	263
Connections/Components	Supply 4 EMT Conduit Part # CONDUIT4-IN-EMT Total	60	1	88
Connections/Components	Supply 4 EMT Connector S/S Part # TPZ640S Total	20	4	89
Connections/Components	Supply 3' Cat6 Copper Patch Cord Part # C6PC3FTOEB Total	20	4	90
Connections/Components	Supply 1 Port Surface Mount Box Part # ISB1IW Total	60	2	93
Connections/Components	Supply 18 Wide Wall Angle Bracket Part # HLX1518 Total	40	3	100
Connections/Components	Supply Plastic Screw & Anchor Kit Part # GRE84012 Total	40	3	103
Connections/Components	Supply 24 Port Modular Patch Panel Part # HPJ24 Total	21	5	104
Connections/Components	Supply 700 Series Metallic 90 Degree Flat Elbow Part # V711 Total	21	5	106
Connections/Components	Supply Intumescent Sealant Part #	55	2	110

School Connectivity

Select the allowable expenditure type. Repeat to add another item under each type.	Item to be purchased	Quantity	Cost per Item	Total Cost
	STISSS100 Total			
Connections/Components	Supply Plastic Tie Wraps Bag Of 100 Part # PANS12-40-C Total	10	12	115
Connections/Components	Supply 700 Series Metallic External Elbow Part # V718 Total	4	31	125
Connections/Components	Supply 3/4 EMT Conduit Part # CONDUIT 3/4-EMT Total	6	43	260
Connections/Components	Supply 4 LB Conduit Body Part # TPZELB10 Total	5	27	137
Connections/Components	Supply 2 Post Relay Rack 84	4	35	138
Connections/Components	Supply 48 Port Modular Patch Panel Part # HPJ48 Total	5	28	138
Connections/Components	Supply 700 Series Metallic Strap Part # V704 Total	20	14	276
Connections/Components	(300) Supply Single Gang Metallic Surface Mount Box Part # V5748 Total	1	141	141
Connections/Components	Supply 700 Series Metallic Internal Elbow Part # V717 Total	1	144	144
Connections/Components	Supply 3/4 EMT Conduit Part # CONDUIT 3/4-EMT Total	3	57	170
Connections/Components	Supply Plastic Screw & Anchor Kit Part # GRE84012 Total	10	21	206
Connections/Components	Supply 48 Port Modular Patch Panel Part # HPJ48 Total	10	21	207
Connections/Components	Supply Intumescent Sealant Part # STISSS100 Total	10	44	440
Connections/Components	Supply 10'L X 18 w Ladder Rack Part # HLS1018B Total	14	16	228
Connections/Components	Supply 2400 Series Metallic Raceway Base & Cover 5' Lengths Part # V2400BC Total	5	144	720
Connections/Components	Supply Single Sided Vertical Wire Manager Part # PPCD4445SC Total	5	53	265
Connections/Components	Supply 4 EMT Conduit Part # CONDUIT4-IN-EMT Total	5	53	265
Connections/Components	Supply 48 Port Modular Patch Panel Part # HPJ48 Total	20	14	276
Connections/Components	Supply 2U Horizontal Wire Manager Part # HM24C Total	80	9	713
Connections/Components	Supply 700 Series Metallic Strap Part	60	6	368

School Connectivity

Select the allowable expenditure type. Repeat to add another item under each type.	Item to be purchased	Quantity	Cost per Item	Total Cost
	# V704 Total			
Connections/Components	Supply Single Gang Metallic Surface Mount Box Part # V5748 Total	2	212	424
Connections/Components	Supply 1U Rack Mount Fiber Enclosure Part # CCH-01U Total	10	43	428
Connections/Components	Supply Cat6 Jack Insert Orange (25 Pack) Part # HJ6OR25 Total	30	18	554
Connections/Components	Supply Single Gang Metallic Surface Mount Box Part # V5748 Total	2	283	566
Connections/Components	Supply 500/700 Series Metallic Offset Connector Part # V5786 Total	2	634	1,268
Connections/Components	Supply 2U Horizontal Wire Manager Part # HM24C Total	60	12	713
Connections/Components	Supply LC OM4 Splice Cassette Part # CCH-CS12-E4-P00QE Total	70	12	858
Connections/Components	Supply Single Gang Deep Metallic Surface Mount Box Part # V5744 Total	100	9	932
Connections/Components	Supply 500/700 Series Metallic Offset Connector Part # V5786 Total	2	488	975
Connections/Components	Supply Cat6a Plenum Cable Part # 30303-8-BL3 Total	3	352	1,056
Connections/Components	Supply 12 Strand OM4 Armored Plenum Fiber Part # 012T88-33190-A3 Total	10	108	1,080
Connections/Components	Supply Single Gang Deep Metallic Surface Mount Box Part # V5744 Total	20	54	1,087
Connections/Components	Supply Vertical Wire Manager Part # VM618 Total	20	57	1,139
Connections/Components	Supply Cat6a Jack Insert (25 Pack) Part # HJ6AR25 Total	20	61	1,228
Connections/Components	Supply 700 Series Metallic Raceway 10' Lengths Part # V700 Total	20	127	2,542
Connections/Components	Supply Cat6a Jack Insert (25 Pack) Part # HJ6AR25 Total	100	14	1,433
Connections/Components	Supply Single Gang Deep Metallic Surface Mount Box Part # V5744 Total	100	16	1,553
Connections/Components	Supply Cat6a Jack Insert (25 Pack) Part # HJ6AR25 Total	200	11	2,252
Connections/Components	Supply 700 Series Metallic Raceway 10' Lengths Part # V700 Total	5	508	2,542

School Connectivity

Select the allowable expenditure type. Repeat to add another item under each type.	Item to be purchased	Quantity	Cost per Item	Total Cost
Connections/Components	Supply Cat6 Plenum Cable Orange Part # M58288B Total	5	566	2,829
Connections/Components	Supply Cat6a Plenum Cable Part # 30303-8-BL3 Total	5	6,017	30,087
Connections/Components	Labor To Create/Provide Run List/Spread Sheet With Cabling Info Total	60	73	4,350
Connections/Components	Labor To Install 12 Strand OM4 Armored Plenum Fiber Qty 300' Total	16	73	1,160
Connections/Components	Labor To Install 16 X 16 X 8 Pullbox Qty1 Total	3	61	181
Connections/Components	Labor To Install 18 Cable Runway With Fittings Qty 20' Total	16	73	1,160
Connections/Components	Labor To Install 1U Rack Mount Fiber Panel Qty 2 Total	1	36	36
Connections/Components	Labor To Install 2 Post Rack Qty 1 Total	3	61	181
Connections/Components	Labor To Install 2 EMT Riser Qty 1 Total	10	73	725
Connections/Components	Labor To Install 2 EMT Wall Sleeve Qty 4 Total	10	73	725
Connections/Components	Labor To Install 24 Port Modular Patch Panel Qty 2 Total	1	36	36
Connections/Components	Labor To Install 2400 Series Metallic Raceway Qty 100' Total	45	73	3,263
Connections/Components	Labor To Install 2U Horizontal Wire Manager Qty 10 Total	5	73	363
Connections/Components	Labor To Install 2U Horizontal Wire Manager Qty 5 Total	5	73	363
Connections/Components	Labor To Install 3' Orange Cat6 Copper Patch Camera Cable Side Qty 39 Total	4	73	290
Connections/Components	Labor To Install 3/4 EMT Conduit Qty 150 Total	45	73	3,263
Connections/Components	Labor To Install 3/4 EMT Conduit Qty 200 Total	21	73	1,523
Connections/Components	Labor To Install 4 EMT Riser Qty 1 Total	10	73	725
Connections/Components	Labor To Install 4 Wall Sleeve Qty 2 Total	5	73	363

School Connectivity

Select the allowable expenditure type. Repeat to add another item under each type.	Item to be purchased	Quantity	Cost per Item	Total Cost
Connections/Components	Labor To Install 4 Wall Sleeve Qty 6 Total	15	73	1,088
Connections/Components	Labor To Install 48 Port Modular Patch Panel Qty 2 Total	1	36	36
Connections/Components	Labor To Install 48 Port Modular Patch Panel Qty 3 Total	2	55	109
Connections/Components	Labor To Install 48 Port Modular Patch Panel Qty 4 Total	2	73	145
Connections/Components	Labor To Install 700 Series Metallic Raceway Qty 1,000' Total	200	73	14,500
Connections/Components	Labor To Install 700 Series Metallic Raceway Qty 2,000' Total	200	73	14,500
Connections/Components	Labor To Install Fire Stop Caulk Qty 12 Total	12	73	870
Connections/Components	Labor To Install Fire Stop Caulk Qty 6 Total	3	73	218
Connections/Components	Labor To Install LC Splice Cassette Qty 2 Total	1	36	36
Connections/Components	Labor To Install Plywood Back Board Qty 1 Total	3	73	218
Connections/Components	Labor To Install Plywood Backboard Qty 1 Total	3	73	218
Connections/Components	Labor To Install Vertical Wire Manager Qty 2 Total	5	73	363
Connections/Components	Labor To Install Wall Mount Cabinet Qty 1 Total	5	73	363
Connections/Components	Labor To Install/Terminate/Test Dual Cat6a For Network Drop Qty 10 Total	45	73	3,263
Connections/Components	Labor To Install/Terminate/Test Dual Cat6a For Network Drop Qty 11 Total	49	73	3,553
Connections/Components	Labor To Install/Terminate/Test Dual Cat6a For Network Drop Qty 33 Total	147	73	10,658
Connections/Components	Labor To Install/Terminate/Test Five Cat6a For Network Drop Qty 1 Total	8	73	580
Connections/Components	Labor To Install/Terminate/Test Quad Cat6a For Network Drop Qty 2 Total	14	73	1,015
Connections/Components	Labor To Install/Terminate/Test Single Cat6 For Camera Qty 39 Total	116	73	8,410
Connections/Components	Labor To Install/Terminate/Test Single Cat6a For Network Drop Qty 43 Total	140	73	10,150

School Connectivity

Select the allowable expenditure type. Repeat to add another item under each type.	Item to be purchased	Quantity	Cost per Item	Total Cost
Connections/Components	Labor To Install/Terminate/Test Single Cat6a For Network Drop Qty 45 Total	147	73	10,658
Connections/Components	Labor To Install/Terminate/Test Single Cat6a For Network Drop Qty 54 Total	176	73	12,760
Connections/Components	Labor To Install/Terminate/Test Six Cat6a For Network Drop Qty 1 Total	9	73	653
Connections/Components	Labor To Install/Terminate/Test Triple Cat6a For Network Drop Qty 1 Total	6	73	435
Connections/Components	Labor To Install/Terminate/Test Triple Cat6a For Network Drop Qty 3 Total	34	73	2,465
Connections/Components	Labor To Perform 2 Floor Core Qty 1 Total	8	73	580
Connections/Components	Labor To Perform 2 Interior Wall Penetration Qty 4 Total	10	73	725
Connections/Components	Labor To Perform 3/4 Interior Wall Penetration Qty 100 Total	180	73	13,050
Connections/Components	Labor To Perform 3/4 Interior Wall Penetration Qty 120 Total	71	73	5,148
Connections/Components	Labor To Perform 4 Floor Core Qty 1 Total	8	73	580
Connections/Components	Labor To Perform 4 Interior Wall Penetration Qty 2 Total	5	73	363
Connections/Components	Labor To Perform 4 Interior Wall Penetration Qty 6 Total	15	73	1,088
Connections/Components	Labor To Perform Fusion Splice Qty 24 Total	17	73	1,233
Professional Services	Labor To Project Manage Total	160	73	11,600
Connections/Components	Labor To Set Up Break Down Total	30	73	2,175
Professional Services	Labor To Perform Abatement Markings For WAP	176	73	12,760
Professional Services	Labor For Stand By During Abatement For WAP	80	73	5,800
Professional Services	Labor To Create Abatement Spread Sheet For WAP	24	73	1,740
Professional Services	Labor To Project Manage For WAP	28	73	2,030
Professional Services	Labor To Perform Abatement Markings for Cabeling	400	73	29,000
Professional Services	Labor For Stand By During Abatement for Cabeling	144	73	10,440

School Connectivity

Select the allowable expenditure type. Repeat to add another item under each type.	Item to be purchased	Quantity	Cost per Item	Total Cost
Professional Services	Labor To Create Abatement Spread Sheet for Cabeling	24	73	1,740
Professional Services	Labor To Project Manage for Cabeling	58	73	4,205
Network/Access Costs	Aruba AP-315 Dual 2x2/4x4 802.11ac AP	40	543	21,736
Network/Access Costs	Aruba AP-335 Dual 4x4:4 11ac 2.5GbE AP	2	926	1,851
Network/Access Costs	Aruba AP-314 Dual 2x2/4x4 802.11ac AP	59	543	32,061
Network/Access Costs	AP-ANT-1W 2.4/5G 4/6dBi Omni	236	18	4,296
Network/Access Costs	Aruba AP-334 Dual 4x4:4 11ac 2.5GbE AP	14	926	12,959
Network/Access Costs	AP-ANT-1W 2.4/5G 4/6dBi Omni	56	18	1,019
Network/Access Costs	AP-220-MNT-W3 Low Prof Secure AP Mnt Kit	16	42	666
Network/Access Costs	Aruba Cntrlr Per AP Capacity Lic E-LTU	115	39	4,485
Network/Access Costs	Aruba Cntrlr Per AP PEF Lic E-LTU	115	39	4,485
Network/Access Costs	Aruba Cntrlr Per AP RFProtect Lic E-LTU	115	39	4,485
Network/Access Costs	AP-310-MNT-W3 AP Mount Kit	99	26	2,574
Network/Access Costs	Aruba 1Y FC 24x7 Ctrl perAP Cap ELTU SVC	115	6	708
Network/Access Costs	Aruba 1Y FC 24x7 License PEF Cn SVC	115	6	708
Network/Access Costs	Aruba 1Y FC 24x7 AP RFProtectE-LTU SVC	115	6	708
Connections/Components	Cabling hardware	1	214	214
Connections/Components	Installation of Smart board	26	750	19,500

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

N/A

2. **Please describe how the proposed project(s) will promote student achievement and increase student and/or staff access to the Internet in a manner that enhances student learning and/or instruction outside of the school day and/or school building.**

N/A

3. **Community connectivity projects must comply with all the necessary local building codes and regulations (building and related permits are not required prior to plan submission).**

☐ I certify that we will comply with all the necessary local building codes and regulations.

4. **Please describe the physical location of the proposed investment.**

N/A

5. **Please provide the initial list of partners participating in the Community Connectivity Broadband Project, along with their Federal Tax Identification (Employer Identification) number.**

Project Partners	Federal ID #
(No Response)	(No Response)

6. **If you are submitting an allocation for Community 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	0
Outside Plant Costs	0
Tower Costs	0
Customer Premises Equipment	0
Professional Services	0
Testing	0
Other Upfront Costs	0
Other Costs	0
Totals:	**0**

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 through the SSBA. If you have any questions, please contact us directly through 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)

1. In order for students and faculty to receive the maximum benefit from the technology made available under the Smart Schools Bond Act, their school buildings must possess sufficient connectivity infrastructure to ensure that devices can be used during the school day. Smart Schools Investment Plans must demonstrate that sufficient infrastructure that meets the Federal Communications Commission's 100 Mbps per 1,000 students standard currently exists in the buildings where new devices will be deployed, or is a planned use of a portion of Smart Schools Bond Act funds, or is under development through another funding source.
Smart Schools Bond Act funds used for technology infrastructure or classroom technology investments must increase the number of school buildings that meet or exceed the minimum speed standard of 100 Mbps per 1,000 students and staff within 12 months. This standard may be met on either a contracted 24/7 firm service or a "burstable" capability. If the standard is met under the burstable criteria, it must be:
1. Specifically codified in a service contract with a provider, and
2. Guaranteed to be available to all students and devices as needed, particularly during periods of high demand, such as computer-based testing (CBT) periods.
Please describe how your district already meets or is planning to meet this standard within 12 months of plan submission.

The current plan is to install wireless access points in all classrooms and general areas. This will enable the District to have sufficient bandwidth to meet user the one on one computing initiative.
The District will exceed the Federal Communications Commission's 100 Mbps per 1,000 students standard with the use of the smartbond allocation. The District anticipates to achieve 150 mbps per 1,000 students.

1a. If a district believes that it will be impossible to meet this standard within 12 months, it may apply for a waiver of this requirement, as described on the Smart Schools website. The waiver must be filed and approved by SED prior to submitting this survey.

☐ By checking this box, you are certifying that the school district has an approved waiver of this requirement on file with the New York State Education Department.

2. Connectivity Speed Calculator (Required)

	Number of Students	Multiply by 100 Kbps	Divide by 1000 to Convert to Required Speed in Mb	Current Speed in Mb	Expected Speed to be Attained Within 12 Months	Expected Date When Required Speed Will be Met
Calculated Speed	1,203	120,300	120.3	100	150	6/1/2020

3. If the district wishes to have students and staff access the Internet from wireless devices within the school building, or in close proximity to it, it must first ensure that it has a robust Wi-Fi network in place that has sufficient bandwidth to meet user demand.
Please describe how you have quantified this demand and how you plan to meet this demand.

The current plan is to install wireless access points in all classrooms and general areas. This will enable the District to have sufficient bandwidth to meet user the one on one computing initiative.

4. All New York State public school districts are required to complete and submit an Instructional Technology Plan survey to the New York State Education Department in compliance with Section 753 of the Education Law and per Part 100.12 of the Commissioner's Regulations.
Districts that include educational technology purchases as part of their Smart Schools Investment Plan must have a submitted and approved Instructional Technology Plan survey on file with the New York State Education Department.

☑ By checking this box, you are certifying that the school district has an approved Instructional Technology Plan survey on file with the New York State Education Department.

5. Describe the devices you intend to purchase and their compatibility with existing or planned platforms or systems. Specifically address the adequacy of each facility's electrical, HVAC and other infrastructure necessary to install and support the operation of the planned technology.

Smart boards have become a vital tool for teachers in today's 21st century classroom environment. A Smart board combines an interactive whiteboard, a computer, a projector and software installed on the computer. These components are connected to the Smart board either wirelessly or with USB cable. The projector is usually mounted to a wall or hung from the ceiling. The combination of these components results an interactive learning environment where students and teachers can collaborate in the learning process.
The District's planned electrical, HVAC and other infrastructure will be able to support the equipment being purchased and it will be compatible with the planned platforms.

6. Describe how the proposed technology purchases will:

- **> enhance differentiated instruction;**
- **> expand student learning inside and outside the classroom;**
- **> benefit students with disabilities and English language learners; and**
- **> contribute to the reduction of other learning gaps that have been identified within the district.**

The expectation is that districts will place a priority on addressing the needs of students who struggle to succeed in a rigorous curriculum. Responses in this section should specifically address this concern and align with the district's Instructional Technology Plan (in particular Question 2 of E. Curriculum and Instruction: "Does the district's instructional technology plan address the needs of students with disabilities to ensure equitable access to instruction, materials and assessments?" and Question 3 of the same section: "Does the district's instructional technology plan address the provision of assistive technology specifically for students with disabilities to ensure access to and participation in the general curriculum?"

The district's use of instructional technology serves as part of a comprehensive and sustained effort to support the attainment of rigorous academic standards and improved performance for students. The proposed technology purchases have been identified because of the expectation that the upgrade/replacement of interactive whiteboards will serve to enhance differentiated instruction, expand student learning both inside and outside the classroom, benefit students with disabilities and English language learners, and contribute to the reduction of identified learning gaps within the district. As stated in the district's technology plan, the district is committed to creating an environment where students brainstorm, create, and showcase their work. Interactive whiteboards expertly satisfy this goal.
The use of interactive whiteboard technology supports the district's commitment to address the needs of Students with Disabilities and English Language Learners. Examples and rationale include:

- Audio experiences with songs playing from the board relax the listener and share facts and information to disseminate concepts and assist in memory retention
- Interactive games and activities to engage the learner and increase attention and motivation
- Access to interactive whiteboard lessons to students at home, creating learning opportunities for absent students and after school learning
- See work prominently displayed
- Create activities/lessons to enhance vocabulary development
- Allow for private submission of responses—and personal, private feedback
- Large screen commands attention
- Different modalities for learners—visual, auditory and tactile
- Multimedia resources
- Collaborative and cooperative learning activities
- Increase connections to the world outside the walls of the school district via videoconferences and instructional videos to improve educational opportunities for all learners, paying close attention to English language learners
- Expose students to a technology-rich curriculum in which they can demonstrate an ability to create, synthesize and apply knowledge
- Use the interactive whiteboard and its software by students as a presentation tool
- Facilitate the development of skills in utilizing hardware and software
- Provide equal access to technology across the entire district
- Provide teachers with the tools to enable them to create student-centered, project-based learning activities
- Accommodate varied curricular needs and learning styles
- Expand virtual field trip opportunities
- Text-to-speech software integrated on board to provide increased support for comprehension of written or verbal language
- Use interactive whiteboard technology to increase options for students with disabilities to demonstrate their knowledge and skills
- Use of interactive whiteboard technology to facilitate collaborative classroom projects among heterogenous student groups

7. Where appropriate, describe how the proposed technology purchases will enhance ongoing communication with parents and other stakeholders and help the district facilitate technology-based regional partnerships, including distance learning and other efforts.

Interactive whiteboard lessons can be shared with students so that parents can view instructional units that teachers make available. The district has introduced Google Classroom, beginning with sixth grade with plans to move down the grade levels. Interactive whiteboard lessons can be posted on Google Classroom to share with students at home as well as their parents. In addition, when a student is absent, the teacher can share the interactive whiteboard lesson created for the class for the student to view at home.

8. Describe the district's plan to provide professional development to ensure that administrators, teachers and staff can employ the technology purchased to enhance instruction successfully.

Note: This response should be aligned and expanded upon in accordance with your district's response to Question 1 of F. Professional Development of your Instructional Technology Plan: "Please provide a summary of professional development offered to teachers and staff, for the time period covered by this plan, to support technology to enhance teaching and learning. Please include topics, audience and method of delivery within your summary."

The district's plan to provide professional development ensures that administrators, teachers and staff can employ the interactive whiteboard technology purchased to enhance instruction successfully. As stated in the district's technology plan, professional development opportunities focus on the topics listed below. Interactive whiteboard professional development will be integrated into each one.
The district uses the resources and personnel from Nassau BOCES Model Schools as well as instructional consultants who design and deliver professional development.

- Technology to support writers
- Research, writing and technology in a digital world
- Writing and technology workshops
- Using technology to differentiate instruction for ELLs
- Multiple ways to assess student learning through technology
- Electronic communication and collaboration
- Helping students connect with the world
- Using the interactive whiteboard for language learning
- Use of the camera for documentation

9. Districts must contact the SUNY/CUNY teacher preparation program that supplies the largest number of the district's 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.

9a. Please enter the name of the SUNY or CUNY Institution that you contacted.

SUNY Oneonta

9b. Enter the primary Institution phone number.

607 436-2390

9c. 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.

Julia Baxter, Supervisor of Field Experence

10. A district whose Smart Schools Investment Plan proposes the purchase of technology devices and other hardware must account for nonpublic schools in the district.

Are there nonpublic schools within your school district?

☑ Yes
☐ No

10a. Describe your plan to loan purchased hardware to nonpublic schools within your district. The plan should use your district's nonpublic per-student loan amount calculated below, within the framework of the guidance. Please enter the date by which nonpublic schools must request classroom technology items. Also, specify in your response the devices that the nonpublic schools have requested, as well as in the in the Budget and the Expenditure Table at the end of the page.

The non-public school will be able to select the classroom technology that best meets their needs up to their per pupil allocation basis. We will purchase this technology for them and loan it to their school up to the $12,054 total non-public allocation. The Non Public School will request by June 1 the use of of Smart boards annually.
One of the two non public schools, Merrick Woods Country Day School has closed.

10b. A final Smart Schools Investment Plan cannot be approved until school authorities have adopted regulations specifying the date by which requests from nonpublic schools for the purchase and loan of Smart Schools Bond Act classroom technology must be received by the district.

☑ By checking this box, you certify that you have such a plan and associated regulations in place that have been made public.

11. Nonpublic Classroom Technology Loan Calculator

The Smart Schools Bond Act provides that any Classroom Learning Technology purchases made using Smart Schools funds shall be lent, upon request, to nonpublic schools in the district. However, no school district shall be required to loan technology in amounts greater than the total obtained and spent on technology pursuant to the Smart Schools Bond Act and the value of such loan may not exceed the total of $250 multiplied by the nonpublic school enrollment in the base year at the time of enactment.

See:

http://www.p12.nysed.gov/mgtserv/smart_schools/docs/Smart_Schools_Bond_Act_Guidance_04.27.15_Final.pdf.

	1. Classroom Technology Sub-allocation	2. Public Enrollment (2014-15)	3. Nonpublic Enrollment (2014-15)	4. Sum of Public and Nonpublic Enrollment	5. Total Per Pupil Sub-allocation	6. Total Nonpublic Loan Amount
Calculated Nonpublic Loan Amount	129,596	1,203	123	1,326	98	12,054

12. To ensure the sustainability of technology purchases made with Smart Schools funds, districts must demonstrate a long-term plan to maintain and replace technology purchases supported by Smart Schools Bond Act funds. This sustainability plan shall demonstrate a district's capacity to support recurring costs of use that are ineligible for Smart Schools Bond Act 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. Further, such a sustainability plan shall include a long-term plan for the replacement of purchased devices and equipment at the end of their useful life with other funding sources.

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

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

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

14. If you are submitting an allocation for Classroom Learning 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.

	Sub-Allocation
Interactive Whiteboards	129,596
Computer Servers	(No Response)
Desktop Computers	

	Sub-Allocation
	(No Response)
Laptop Computers	(No Response)
Tablet Computers	(No Response)
Other Costs	(No Response)
Totals:	**129,596**

15. 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 through the SSBA. If you have any questions, please contact us directly through smartschools@nysed.gov.
Please specify in the "Item to be Purchased" field which specific expenditures and items are planned to meet the district's nonpublic loan requirement, if applicable.
NOTE: Wireless Access Points that will be loaned/purchased for nonpublic schools should ONLY be included in this category, not under School Connectivity, where public school districts would list them.
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
Interactive Whiteboards	Whiteboard electrontic pens	39	48	1,868
Interactive Whiteboards	Non-Public School Allocation for smartboards. Tyoe of smartboard To Be Determined	1	12,054	12,054
Interactive Whiteboards	Smart Board MX275 Interactive Plat Panel	26	3,999	103,974
Interactive Whiteboards	Rail System Mount RS-IFP	26	450	11,700

1. Provide information regarding how and where the district is currently serving pre-kindergarten students and justify the need for additional space with enrollment projections over 3 years.

N/A

2. Describe the district's plan to construct, enhance or modernize education facilities to accommodate pre-kindergarten programs. Such plans must include:

- Specific descriptions of what the district intends to do to each space;
- An affirmation that pre-kindergarten classrooms will contain a minimum of 900 square feet per classroom;
- The number of classrooms involved;
- The approximate construction costs per classroom; and
- Confirmation that the space is district-owned or has a long-term lease that exceeds the probable useful life of the improvements.

N/A

3. Smart Schools Bond Act funds may only be used for capital construction costs. Describe the type and amount of additional funds that will be required to support ineligible ongoing costs (e.g. instruction, supplies) associated with any additional pre-kindergarten classrooms that the district plans to add.

N/A

4. All plans and specifications for the erection, repair, enlargement or remodeling of school buildings in any public school district in the State must be reviewed and approved by the Commissioner. Districts that plan capital projects using their Smart Schools Bond Act funds will undergo a Preliminary Review Process by the Office of Facilities Planning.

Please indicate on a separate row each project number given to you by the Office of Facilities Planning.

Project Number
(No Response)

5. If you have made an allocation for Pre-Kindergarten 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 Pre-K Classrooms	0
Enhance/Modernize Educational Facilities	0
Other Costs	0
Totals:	**0**

6. 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 through the SSBA. If you have any questions, please contact us directly through smartschools@nysed.gov.
Add rows under each sub-category for additional items, as needed.

Pre-Kindergarten Classrooms

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)

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

N/A

2. All plans and specifications for the erection, repair, enlargement or remodeling of school buildings in any public school district in the State must be reviewed and approved by the Commissioner. Districts that plan capital projects using their Smart Schools Bond Act funds will undergo a Preliminary Review Process by the Office of Facilities Planning.

Please indicate on a separate row each project number given to you by the Office of Facilities Planning.

Project Number
(No Response)

3. For large projects that seek to blend Smart Schools Bond Act dollars with other funds, please note that Smart Schools Bond Act funds can be allocated on a pro rata basis depending on the number of new classrooms built that directly replace transportable classroom units.

If a district seeks to blend Smart Schools Bond Act dollars with other funds describe below what other funds are being used and what portion of the money will be Smart Schools Bond Act funds.

N/A

4. 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)
Totals:	**0**

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 capital-bond eligible to be reimbursed through the SSBA. If you have any questions, please contact us directly through 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)

High-Tech Security Features

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

N/A

2. All plans and specifications for the erection, repair, enlargement or remodeling of school buildings in any public school district in the State must be reviewed and approved by the Commissioner. Districts that plan capital projects using their Smart Schools Bond Act funds will undergo a Preliminary Review Process by the Office of Facilities Planning.
Please indicate on a separate row each project number given to you by the Office of Facilities Planning.

Project Number
(No Response)

3. Was your project deemed eligible for streamlined Review?

- ☐ Yes
- ☐ No

4. Include the name and license number of the architect or engineer of record.

Name	License Number
(No Response)	(No Response)

5. 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
Capital-Intensive Security Project (Standard Review)	(No Response)
Electronic Security System	(No Response)
Entry Control System	(No Response)
Approved Door Hardening Project	(No Response)
Other Costs	(No Response)
Totals:	**0**

6. 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 through the SSBA. If you have any questions, please contact us directly through 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)